

UNDERGRADUATE & GRADUATE

# Academic Catalog

2011-2012



**PURDUE**  
UNIVERSITY  
CALUMET

*Experiences for a Lifetime*

# CHANCELLOR'S *Message*



Dear Student,

Congratulations on your decision to pursue a world respected Purdue University education at Purdue University Calumet!

We hope to provide you with opportunities, challenges, and positive outcomes. Purdue Calumet offers more than 80 baccalaureate and master's degree programs on our Hammond campus. Our dedicated faculty and staff are an important resource for you in exploring new opportunities you will encounter as you learn, grow, and prepare yourself for professional success. With our many services, you can find support, help, and the richness of a comfortable campus environment.

Your Purdue Calumet education is designed to integrate theory and practice by providing experiential learning opportunities where you can apply what you learn in the classroom to real-world situations. It is our hope that your Purdue Calumet education will launch your career and be the foundation of your future success.

Please use this on-line catalog as a guide on your path to goal accomplishment and know that we are here to help and guide you. Our mission at Purdue Calumet is to provide you with affordable quality education and a campus experience that contributes to your professional and personal development. Best wishes for much success!

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Keon', written over a white background.

DR. THOMAS L. KEON  
CHANCELLOR



# THE UNIVERSITY *Village*

## DEPARTMENT OF HOUSING and RESIDENTIAL EDUCATION

Purdue University Calumet became a residential campus in Fall 2005 with the opening of its first student housing facility, The University Village (Phase I). In the Fall of 2009, Phase II was added to The University Village community providing space for a total of 745 residents and live-in residential staff members. The University Village community provides fully furnished apartment suite-style accommodation.

Each apartment suite features four private bedrooms, two bathrooms, a common living room and fully furnished kitchen/dining room. The facilities are designed to provide convenience and comfort in an environment that supports the academic success of its residents.

The University Village community is overseen by the staff of the Department of Housing and Residential Education and is located at the south end of campus, along 173rd Street, east of the Fitness and Recreation Center. The Department of Housing and Residential Education offers three options for student housing contracts: an annual year (August to August), an academic year (August to May), and summer (May to August). Students interested in living on-campus are encouraged to visit the Department of Housing and Residential Education website at [www.purduecal.edu/housing](http://www.purduecal.edu/housing) or call (219) 989-4150 for more information.



## AMENITIES

- Furnished apartment suites with individual bedrooms
- Fully-equipped kitchens
- Laundry rooms on each floor
- Internet connectivity (*Apartment suite common areas and bedrooms*)
- Computer labs
- Music Practice Rooms (*Phase II*)
- Satellite television
- Patio (*Phase II*)
- Close proximity to the Fitness and Recreation Center
- Quiet study areas, group meeting spaces, and conference rooms
- Gated parking lot



**219/989-4150** OR **800/HI-PURDUE**, ext. 4150

[www.purduecal.edu/housing](http://www.purduecal.edu/housing)

**PURDUE**  
**UNIVERSITY**  
CALUMET

UNDERGRADUATE & GRADUATE  
*Academic*  
*Catalog*  
2011-2012

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## DISCLAIMER.

*The provisions of this publication are subject to change without notice and do not constitute an irrevocable contract between any student or applicant for admission and Purdue University Calumet. The University is not responsible for any misrepresentation of its requirements or provisions that might arise as a result of errors in the preparation of this publication.*

*Purdue University Calumet has reserved the right to add, amend, or repeal any of its regulations, rules, resolutions, standing orders, and rules of procedures, in whole or in part, at such times as it may choose. None shall be construed, operate as, or have the effect of any abridgement or limitation of any rights, powers, or privileges of the Board of Trustees.*

*Every effort has been made to assure the accuracy of the information in this publication. Students are advised, however, that such information is subject to change. Therefore, they should consult the appropriate academic department or administrative offices for current information.*

## NONDISCRIMINATION POLICY STATEMENT.

*Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.*

*Purdue University views, evaluates, and treats all persons in any University related activity or circumstance in which they may be involved, solely as individuals on the basis of their own personal abilities, qualifications, and other relevant characteristics.*

*Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Executive Memorandum No. D-1, which provides specific contractual rights and remedies. Additionally, the University promotes the full realization of equal employment opportunity for women, minorities, persons with disabilities and veterans through its affirmative action program.*

*Any question of interpretation regarding this Nondiscrimination Policy Statement shall be referred to the Vice President for Ethics and Compliance for final determination..*

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# About Purdue University Calumet

Purdue University Calumet is a comprehensive, regional university dedicated to serving the professional, cultural and general educational needs of the citizens of Northwest Indiana (and beyond) in the tradition of world-respected Purdue University quality. Its more than 100 academic programs lead to associate, baccalaureate and master's degrees as well as professional certificates.

From its World War II inception as a source of technical instruction for Northwest Indiana production workers in response to the war effort, Purdue University Calumet has become a comprehensive institution of higher education, enrolling more than 10,000 students and offering more than 100 associate, bachelor's, and master's degree programs. Located on a 167-acre wooded parcel of land in the Woodmar neighborhood of Hammond, Indiana, the Purdue Calumet campus features 17 buildings, including student residential apartments, and some of the finest small university computing facilities in the country.

As one of the regional campuses within the Purdue University system, Purdue University Calumet offers its undergraduate programs through a 1974 grant of academic autonomy within the Purdue system. Thus, Purdue Calumet is able to offer programs specifically designed to address the special needs of the citizens it serves. As part of the Purdue system, Purdue Calumet subscribes to the university-wide commitment to "the development and nurturing of a racially, socially and religiously diverse community which recognizes the inherent worth and dignity of every person, fosters tolerance, sensitivity, understanding, and mutual respect among its members, and encourages each individual to strive to reach his or her own potential." Purdue University believes that cultural variety stimulates creativity, promotes an exchange of ideas, and enriches life. Purdue University also accepts the responsibility of serving as a positive example and helping to prepare men and women who will make a lasting contribution to society.

*(Purdue University Statement of Principles, 1989)*

Purdue University Calumet is a community committed to people as its most important resource. It strives to foster a supportive environment in which students, staff and faculty can learn, grow and thrive. Purdue Calumet is committed to helping students succeed and encourages them by:

- placing primary emphasis on teaching and learning;
- offering reasonable in-state tuition rates, with state support covering a substantial portion of the cost of education;
- offering financial aid;
- providing strong student support services;
- scheduling classes to facilitate the teaching/learning process;
- offering flexible courses, scheduling, and sites;
- emphasizing lifelong learning; and
- requiring experiential learning that integrates traditional classroom and textbook learning with authentic work experiences

Purdue Calumet supports the educational process with a wide range of academic support services, including: advising, tutoring, supplemental instruction, recreation and athletics, counseling and clinical health care, and residential life. Purdue Calumet also provides considerable computing resources to support student learning. These include extensive computer labs, web-based learning software, electronic classrooms, high performance computing, visualization and simulation computing, on-line courses, and degree progress tracking software.

Purdue Calumet supports the development of Northwest Indiana through participation in the Purdue Northwest Indiana Technology Center, the Hammond Innovation Center, the Entrepreneurship Center and sponsorship of the NWI Small Business Development Center. The university also supports applied research to benefit our region through the Water Institute, the Center for Energy Efficiency and Reliability, the Joanna Briggs Center for Evidence-Based Practice in Nursing and the Center for Innovation in Visualization and Simulation among others.

## Mission Statement

In 1974, the Board of Trustees of Purdue University granted academic autonomy to Purdue University Calumet Campus (now Purdue University Calumet) for its undergraduate programs by approving the Proposal for Academic Autonomy.

A part of that document is the Mission Statement for Purdue University Calumet. It reads as follows:

*The Calumet campus of Purdue University is dedicated to the land grant tradition of which it is a part and is especially concerned with serving the people of Northwest Indiana.*

*At the present time, its primary mission is threefold:*

*to provide its students with a liberal education which will prepare them for life or for the professions; to provide career-oriented curricula which lead to certificates, associate degrees, baccalaureate degrees and master's degrees; and to provide programs that meet the professional, cultural and general education needs of this large urban-industrialized community.*

*The Purdue University Calumet campus owes its existence to the practical and useful contributions it has made to the daily life and needs of the people living in this large industrialized-urban complex.*

## Organization

A single Board of Trustees governs the entire Purdue University system through the President of the University. The Chancellor of Purdue University Calumet is the senior administrative officer on campus and reports to the president of Purdue University.

*Serving the Chancellor are five Vice Chancellors:*

- The **Vice Chancellor for Academic Affairs** responsible for the academic programs, enrollment-related services, and the Center for Student Achievement.
- The **Vice Chancellor for Administrative Services** is responsible for the business affairs of the university, including budget and finance, human resources, buildings and grounds and campus police.
- The **Vice Chancellor for Advancement** responsible for advancing the university to and through its various publics while overseeing alumni relations, fund raising, university and community relations, and marketing.
- The **Vice Chancellor for Student Affairs** oversees the many services and functions the university offers to advance student success and nurture student life and community on campus.
- The **Vice Chancellor for Information Systems** is responsible for connecting the changing, emerging needs of technology with the knowledge generated through library resources.

## The Academic Schools

Each degree and certification program offered at Purdue Calumet is housed in one of the Academic Schools noted below:

The **School of Engineering, Mathematics, and Science** consists of the following departments:

- Department of Biological Sciences
- Department of Chemistry and Physics
- Department of Electrical and Computer Engineering
- Department of Mathematics, Computer Science, and Statistics
- Department of Mechanical Engineering

The **School of Liberal Arts and Social Sciences** consists of the following departments:

- Department of Behavioral Sciences
- Department of Communication and Creative Arts
- Department of English and Philosophy
- Department of Foreign Languages and Literatures
- Department of History and Political Science
- Department of Hospitality and Tourism Management

The **School of Technology** consists of the following departments:

- Department of Construction Science and Organizational Leadership
- Department of Engineering Technology
- Department of Computer Information Technology and Graphics

The **School of Education** consists of the following departments:

- Department of Teacher Preparation
- Department of Graduate Studies in Education

The **School of Management** consists of the following departments:

- Department of Marketing, Human Resources & Management
- Department of Finance and Economics
- Department of Accounting
- Department of Information Systems

The **School of Nursing**

## The Graduate School

The Graduate School oversees all aspects of Graduate Education at Purdue University Calumet. This includes admissions and records, new courses and program development. As a unit of the system wide graduate education, Purdue University Calumet Graduate School coordinates all activities with Purdue University Graduate School.

## Accreditations

Purdue University Calumet is accredited:

- The Higher Learning Commission  
A Commission of the North Central Association of Colleges and Schools  
230 South LaSalle St., Suite 7-500  
Chicago, IL 60604-1411  
Toll Free Phone: 800.621.7440 Phone: 312.263.0456  
<http://www.ncahlc.org>
- Technology Accreditation Commission of ABET,  
<http://www.abet.org>

*See Departments of Construction Science and Organizational Leadership and Engineering Technology for specific program accreditations.*

- Engineering Accreditation Commission of ABET (EAC-ABET)  
111 Market Place, Suite 1050, Baltimore, MD 21202-4012  
phone: (410) 347-7700 fax: (410) 625-2238
- National Council for Accreditation of Teacher Education (NCATE)  
2010 Massachusetts Ave., Suite 500, Washington, DC 20036-1023  
[www.ncate.org](http://www.ncate.org)
- Indiana Department of Education  
Office of Educator Licensing and Development  
151 West Ohio Street, Indianapolis, Indiana 46204
- National League for Nursing Accreditation Commission (NLNAC)  
3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326  
phone: (404) 975-5000  
[www.nlnac.org](http://www.nlnac.org)
- Professional Licensing Agency (Attn: Indiana State Board of Nursing)  
402 W Washington Street - Room W072, Indianapolis, IN 46204  
phone: (317) 234-2043  
[www.in.gov/pla/nursing.htm](http://www.in.gov/pla/nursing.htm)
- American Chemical Society (ACS)  
1155 Sixteenth Street NW, Washington DC 20036
- The Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE)  
American Association for Marriage and Family Therapy  
112 South Alfred Street, Alexandria, VA 22314  
phone: (703) 838-9808 fax: (703) 838-9805  
e-mail: [coa@aamft.org](mailto:coa@aamft.org)

- International Assembly for Collegiate Business Education  
P.O. Box 3960, Olathe Kansas 66063  
phone: (913) 631-3009  
[www.iacbe.org](http://www.iacbe.org)

- NAEYC (National Association of Education of Young Children)  
1313 L St. NW, Suite 500, Washington, D.C. 20005  
phone(s): (202)232-8777 | (800)424-2460  
[webmaster@naeyc.org](mailto:webmaster@naeyc.org)

## Academic Learning Center (MERRILLVILLE)

In addition to our Hammond campus, classes are offered in south Lake County at the Academic Learning Center — at the Merrillville-Crown Point border off Broadway Avenue about 2-1/2 miles south of US Highway 30.

**At the Academic Learning Center:**

- Convenient class times are scheduled for the busy, working adult.
- A large selection of freshman/sophomore level classes scheduled throughout the day and evening.
- Fall term classes begin in late August; Spring term classes start in mid-January; and Summer session classes start in mid-June at the Academic Learning Center
- Plenty of convenient parking is available.
- The start of an internationally respected Purdue education is available

For additional information about south Lake County classes, access the Purdue Calumet Web site at [www.purduecal.edu](http://www.purduecal.edu) and click on Academic Learning Center or call (219) 756-7252.

## Enrollment Services Center

The Enrollment Services Center located in Lawshe Hall room 130, offers one-stop help in all aspects of the enrollment process. By visiting the Center, you can...

- learn more about admission and Purdue Calumet's programs
- apply for financial aid and check your financial aid status
- register for classes
- review your account (bill)
- pay your tuition and fees

Also, a student self-service area helps you do much of the enrollment process via the web. Here are some of the current enrollment services through the Purdue Calumet Home Page: [www.purduecal.edu](http://www.purduecal.edu) Check out **MyPuc**.

## Through the WEB, you can...

- check current openings in classes
- check dates, times, and faculty teaching classes
- check your personal class schedule
- view your address information
- view e-mail address
- view unofficial transcript which includes:
  - grades and GPA
  - view Blackboard Course Management system login information
  - review your financial aid award
  - review your student account (bill) and pay it online
  - apply for undergraduate admission
  - register for classes

The Enrollment Services Center and the highly trained staff have been recognized by IBM Corporation for Best Practice in Student Services (2000).

# Admission to the University

The Office of Undergraduate Admissions offers View Purdue Calumet Open Houses and Information Sessions and provides guided campus tours and pre-admissions counseling appointments. For more information write or call:

Office of Admissions  
Lawshe Hall, Room 130  
Purdue University Calumet  
2200 169th St  
Hammond, Indiana 46323-2094  
Phone: (219) 989-2213  
Toll-free: 1-800-HI-PURDUE,\* ext. 2213

\*Toll-free in northwest Indiana and Chicagoland area:

Website: [www.purduecal.edu/admissions/](http://www.purduecal.edu/admissions/)

Beginning students need to submit the following to be considered for admissions:

1. Completed Application, ("A non-refundable undergraduate student application fee will be assessed in 2012. Please visit [www.purduecal.edu/admissions/](http://www.purduecal.edu/admissions/) for an update and details on the fee start date.")
2. Official High School Transcript and/or GED Scores (regionally accredited)
3. Standardized Test Scores (Sat or ACT), including writing component (for recent high school graduates)
  - Applicants whose high school graduation date was at least one year prior to their intended semester of enrollment, appropriate placement test results from Academic Resource Center will substitute for SAT or ACT scores.

\*Please visit the undergraduate admission website for updates at <http://webs.purduecal.edu/admissions/students/>.

Application deadlines are established for each academic semester see [www.purduecal.edu/admissions/](http://www.purduecal.edu/admissions/) for dates.

## Acceptance

Admission to Purdue University Calumet is based on demonstrated academic quality rank factors, which includes a high school diploma or GED, meeting subject matter requirements, grade average in degree-related subjects, as well as overall grade average, trends in achievement, class rank, SAT or ACT test scores and the strength of the college preparatory program.

## Admissions Decisions

Recent Indiana High School Graduates are required to have at least a Core 40 to be accepted into Purdue University Calumet.

The Office of Admissions will evaluate applications and make one of the following determinations:

1. **Regular admission.** The applicant has met all conditions for admission to the school, department and curriculum specified in the letter of Admission.
2. **Admitted on Probation.** The applicant has a previous college record showing academic probationary status, but will be permitted to take courses at Purdue Calumet.
3. **Denied admission.** The applicant will not be admitted to the university until adequate background and preparation for university work can be demonstrated.
4. **Incomplete admission.** The applicant has not provided all of the information or documentation necessary for the Office of Admissions to determine eligibility.
5. **Pending admission.** Additional information will be required at a later time, such as final grades from a semester currently in progress.

## Indiana Core 40

Core 40 became Indiana's required high school curriculum in Fall 2007. Starting Fall 2011 a Core 40 high school diploma became required for entrance to any four-year public Indiana

college/university. In addition to considering high school courses, Purdue University Calumet will continue to use other factors such as grade point average, class rank, trends in achievement, honor courses, and test scores when reviewing applications for admission.

## Indiana High School Dual Credit

Dual credit programs are partnerships between an individual high school or high school corporation and a particular college or university. Please contact the Office of Undergraduate Admissions to see if your school has entered into agreement with Purdue University Calumet.

In Indiana, dual credit courses are those which high school students may take to earn both high school and college credits. Dual credit courses are taught by high school faculty or by adjunct college faculty either at the high school, at the college or university, or through online courses or distance education. Dual credit is one of several options a high school student may use to fulfill Core 40 diploma requirements with Academic Honors or Technical Honors.

Students wishing to fulfill Core 40 with Academic Honors or Technical Honors diploma requirements are encouraged to choose dual credit courses from either the Core Transfer Library (CTL) or from the courses listed by the Independent Colleges of Indiana (ICI). Courses chosen from both the CTL and ICI list of courses may maximize the changes for the transferability of credit for courses and also meet the dual credit requirements necessary for Core 40 with Academic Honors or Technical Honors.

If students choose a dual credit course NOT on the CTL or on the courses listed by ICI, they should contact the college they plan to attend to see if that course can be transferred to that institution. Indiana colleges and universities provide many opportunities for students to earn college credit while still attending high school. For more information and the latest details visit: [www.transferin.net/High-School-Students/Dual-Credit.aspx](http://www.transferin.net/High-School-Students/Dual-Credit.aspx)

## National Test Requirements

Students who graduated from high school during or after 2006 are **required to take the WRITING COMPONENT of the SAT or ACT** in addition to the general exams. For applicants who graduated from high school within one year prior to their intended semester of enrollment, appropriate placement test results from the University's Academic Resource Center will substitute for SAT or ACT scores.

## Direct Admission

**Non-Direct Admission.** Applicants who DO NOT meet the quality rank requirements for a particular program may be offered admission into a preparatory program (within the Schools of Management, Technology, Liberal Arts and Sciences, Engineering, Math and Science) or the Center for Student Achievement.

*\*The Nursing Program has limited enrollment and the BEST QUALIFIED applicants will be considered. STUDENTS ADMITTED TO THE PROGRAM GENERALLY EXCEED MINIMUM REQUIREMENTS. Applicants must apply NO LATER THAN February 1 for admission in August. Applicants approved for admissions by the Nursing Admissions Committee will begin their studies in August.*

## Degree-Seeking Transfer Students

An applicant transferring from another college (non-Purdue campus) must submit the following items:

- Completed application for admission. (A non-refundable undergraduate student application fee will be assessed in 2012. Please visit [www.purduecal.edu/admissions/](http://www.purduecal.edu/admissions/) for an update and details on the fee start date.)
- Completed Transfer Credit Documentation Sheet
- Official high school transcript and/or, GED scores\*
- Official college transcripts from each institution attended (if applicable, see Transfer Credit Documentation Sheet)
- \$30.00 Transfer Credit Evaluation Fee (if applicable, see Transfer Credit Documentation Sheet)

\*Exception: Applicants with at least an associate degree (documented) from a regionally accredited institution.

## Transfer Student Admission Criteria

- 1) The applicant must submit official college transcripts showing at least 15 semesters or semester equivalent hours of college level work completed with a C or better.
- 2) The applicant must have successfully completed College Composition (ENGL 10400) at a regionally accredited institution of higher education; and
- 3) The applicant must have earned a cumulative grade point average of 2.0 or above from the last institution attended.

*Particular programs may require specific cumulative grade point averages for admission and/or additional successfully completed transfer courses for Transfer Students Admission.*

*Transfer credit is established through these procedures:*

1. Applicants who have attended another college or university must complete a Transfer Credit Documentation Sheet. Students who wish to transfer non-Purdue course-work from a regionally accredited institution must submit an official transcript and pay a non-refundable \$30.00 Transcript Credit Evaluation Fee.
2. Purdue University Calumet accepts credit from regionally accredited institutions for college level classes in which the student has received a grade of C- or better. The university reserves the right to determine the transferability and acceptance of transfer credit.
3. Course equivalencies are determined by respective academic departments (e.g. math course equivalencies are determined by the the Department of Mathematics, Computer Science and Statistics)
4. Transfer courses will be evaluated by an Academic Advisor on an individual basis by program of study to determine how credits will apply toward plan of study and graduation requirements.
5. Purdue University Calumet accepts a maximum of 90 credits toward a baccalaureate degree from other regionally accredited colleges and universities.

## TRANSFER CREDIT

### Transfer Indiana – TransferIN and u.select

Purdue University Calumet supports and encourages prospective transfer students to visit the Indiana Commissions of Higher Education Transfer Indiana website at <http://www.transferin.net/> to view the Core Transfer Library (CTL) — a list of courses that will transfer among all Indiana public college and university campuses, assuming adequate grades.

Within Indiana's TransferIN site, the program u.select allows prospective transfer students to view how credits may be evaluated and utilized by desired transfer institution(s).

*TransferIN and u.select are free services for anyone interested in learning about:*

- How courses transfer between participating college or universities
- The degree programs colleges and universities offer
- How to plan for transfer

*TransferIN and u.select work best for students who:*

- Already know where they are going to transfer, or at least have their options narrowed down to a few colleges or universities
- Plan to take one or two classes at another college or university to transfer back to their native institution

*TransferIN and u.select can show:*

- If credits may have equivalents at another college or university
- How credits may be applied toward a degree at another college or university

*TransferIN and u.select can also show:*

- If there are courses you can take at another institution over the summer that will transfer back to your native college or university and how they may count toward your degree
- What course(s) you may need to graduate
- What course(s) you may need if you decide to change majors

You will find TransferIN and u.select helpful and efficient in your planning. However, you are encouraged to plan your course of study carefully and early. Seek detailed information from your advisor and the college or university to which you wish to transfer.

## The Online Transfer Equivalency System

[www.purduecal.edu/admissions/tces.html](http://www.purduecal.edu/admissions/tces.html)

Students and faculty now can efficiently evaluate transferring course credits through our Purdue University Calumet website. This system compares Purdue University Calumet course credits with that of other colleges and universities.

Transfer credit is subject to departmental acceptance and distribution and equivalencies can be changed at any time. Please refer to admission policies regarding transferring credit for additional information.

## Students Re-Entering Purdue University Calumet

Purdue Calumet students who have not attended for two years or longer but who were in good academic standing when they left must reapply for admission.

Those applicants who have attended another college or university since their last attendance at Purdue Calumet should refer to the Degree Seeking Transfer Student section on page 10 of this catalog.

## Degree-Seeking Transfer Students from other Purdue Campuses

Students who have attended or are currently attending another campus in the Purdue system may transfer\* to Purdue Calumet by filing a regional-campus-transfer application available at the Registrar's Office of their original Purdue campus. Intercampus transfer students may also complete Purdue University Calumet's online or paper application for admissions or an undergraduate application for admissions.

*\*Purdue University Calumet welcomes Purdue University transfer students in good academic standing. A Purdue University transfer student with a grade point average less than a 2.0 must be within 30 quality points of achieving a 2.0 for admission and must raise his or her grade point average to a 2.0 within the first 12 hours or enrollment at Purdue University Calumet.*

## Non-Degree Seeking Students

Purdue Calumet welcomes students pursuing studies for personal or professional enrichment. Students not pursuing a degree are admitted as non-degree-seeking students and may be admitted in the following circumstances: Note: Most non-degree seeking students are not eligible for consideration for financial aid, although students seeking a Certificate Program may be eligible for financial aid.

1. **Adult Learners:** Adults 23 years of age or older with special interests and expertise who are enrolling for personal enrichment. Transcripts of credits and SAT/ACT or placement scores are recommended but not required.
2. **Students applying for a Pre-Baccalaureate Certificate Program:** A high school diploma (or equivalent) is required. Additional criteria, work experience, math skills, etc. will be discussed during your advisement appointment.
3. **Students applying for a Post-Baccalaureate Certificates:** Transcripts from accredited institutions of higher education are required to verify receipt of a bachelor's degree.
4. **Company Employees:** Employees of local businesses and industries who need further education in specific areas may enroll in selected courses with the recommendation of their employers. Transcripts of credits and SAT/ACT or placement scores are recommended and may be required for advising purposes.
5. **High School Students (Rule 10 Dual Credit and Concurrent Enrollment):** High school students must meet the university's admission requirements as determined by the student's rank in class, test scores, and strength of college preparatory program.  
High school students who have completed a minimum of four semesters of high school and who are interested in using their college credits to meet high school graduation requirements or get a head start on college, should contact their high school guidance counselor for a High School Application.
6. **Transient College Students:** Students pursuing degrees at non-Purdue campuses may enroll for one semester.

Non-degree students who later wish to pursue degrees must apply for degree-seeking admission and are subject to admissions and degree requirements in effect for the semester in which they apply.

## Advanced Credit and Advanced Placement

Advanced credit means that the university grants credit based on other outside academic work and records it on the student's record.

Advanced placement means that a student is placed in an advanced level course but may not have earned credit toward a degree for any prior courses. The Office of Admissions evaluates requests for advanced credit and advanced placement.

There are six ways for a student to establish advanced credit or advanced placement:

- Departmental/School Credit by Exam.** An individual school/department may establish an examination procedure to establish advanced credit. Students should consult with the school/department head or academic advisor for details.
- Departmental/School Credit without Exam** may be awarded on the basis of substantially equivalent experience or successful completion of a more advanced course. Students should consult with the school/department head or academic advisor for details.
- Departmental/School Credit in Mathematics, Computer Science, and Statistics.** Students may submit an application to the school/department for credit in basic mathematics courses numbered 135 or above only if:
  - the basic course satisfies the mathematics requirement for the student's curriculum;
  - the student is currently taking or has completed a subsequent course in the normal sequence of math courses in the school/department; and
  - the student has never received a grade other than W in the basic course.
- College-Level Examination Program (CLEP).** CLEP exams evaluate non-traditional college-level education, such as independent study, correspondence work, or credit earned at a non-regionally accredited institution. Purdue Calumet may accept CLEP credit if the student completes the subject matter examinations and sends the official score report with the qualifying exam and score to the Office of Admissions. (General examinations credit is not accepted.)

## CLEP Scores Required for Equivalent Purdue University Calumet Credit

CLEP Subject Exams	PUC Equivalent	Required Scores	Credit Granted
Financial Accounting	MGMT 200	45+	3 credit
Principles of Management	MGMT 101	45+	3 credit
Biology	BIOL 101 & BIOL 102	48+	8 credit
Chemistry	*CHM 111	50+	3 credit
	CHM 111 & CHM 112	65+	6 credit
	*CHM 115	55+	4 credit
	CHM 115 & CHM 116	70+	8 credit
Calculus	MA 163 & MA 164	55+	10 credit
Pre-Calculus	MA 159	57+	5 credit
College Composition with Essay	ENGL 104	49+	3 credit
Human Growth & Development	CDFS UND	45+	3 credit
Introductory Psychology	PSY 120	45+	3 credit
Introductory Sociology	SOC 100	45+	3 credit
History of the United States I	HIST 151	50+	3 credit
History of the United States II	HIST 152	50+	3 credit
Western Civilization	HIST 110	50+	3 credit
Western Civilization II	HIST 104	50+	3 credit

\*sequence determined by applicant's major

- College Board Advanced Placement Program.** Advanced Placement credit is awarded to students who have successfully completed college-level work in high school or through other non-traditional, college-level educational experiences.

Students can establish credit by submitting an official score report with a qualifying score to the Office of Admissions.

**NOTE:** The equivalencies below are based on AP exams taken before July 1, 2010 and predate the legislative mandate in EHB 1135 – Please check [www.purduecalumet.edu/ap-credits](http://www.purduecalumet.edu/ap-credits) for any updated AP course equivalencies.

## Advanced Placement and Advanced Credit (March 2011)

AP Exam Title	AP Score	PUC Equivalency	PUC Credit Hours
Art History	3,4,5	A&D 25500	3
Biology*	3	BIOL 1XXXX	3
	4,5	BIOL 10100, 10200	8
Calculus AB*	3	MA 1XXXX	3
Calculus AB	4,5	MA 16300	5
Calculus BC*	3	MA 1XXXX	3
Calculus BC	4,5	MA 16300, 16400	10
Calculus BC - AB subscore*	3,4,5	MA 1XXXX	3
Chemistry	3	CHM 11100	3
	4,5	CHM 11500, 11600	8
Chinese Language and Culture	3	CHNS 10100	3
	4,5	CHNS 10100, 10200	6
Comparative Government and Politics*	3	POL 1XXXX	3
Comparative Government and Politics	4,5	POL 14100	3
Computer Science A*	3,4,5	CS 1XXXX	3
English Language and Composition	3,4,5	ENGL 10400	3
English Literature and Composition*	3,4,5	ENGL 1XXXX	3
Environmental Science*	3,4,5	SCI 1XXXX	3
European History*	3	HIST 1XXXX	3
	4,5	HIST 10400	3
French Language	3	FR 10100, 10200	6
	4	FR 10100, 10200, 20100	9
	5	FR 10100, 10200, 20100, 20200	12
German Language	3	GER 10100, 10200	6
	4	GER 10100, 10200, 20100	9
	5	GER 10100, 10200, 20100, 20200	12
Human Geography*	3,4,5	EAS 1XXXX	3
Italian Language and Culture*	3	ITAL 1XXXX, 1XXXX	6
	4	ITAL 1XXXX, 1XXXX, 1XXXX	9
	5	ITAL 1XXXX, 1XXXX, 1XXXX, XXXX	12
Japanese Language and Culture	3	JPNS 10100, 10200	6
	4	JPNS 10100, 10200, 20100	9
	5	JPNS 10100, 10200, 20100, 20200	12

AP Exam Title	AP Score	PUC Equivalency	PUC Credit Hours
Latin Vergil*	3, 4, 5	LATN 1XXXX	3
Macroeconomics	3, 4, 5	ECON 25200	3
Microeconomics	3, 4, 5	ECON 25100	3
Music Theory*	3, 4, 5	MUS 1XXXXX	3
Physics B	3, 4, 5	PHYS 22000, 22100	8
Physics C: Electricity and Magnetism*	3	PHYS 1XXXX	3
	4, 5	PHYS 25100	5
Physics C: Mechanics	3	PHYS 1XXXX	3
	4, 5	PHYS 15200	4
Psychology	3, 4, 5	PSY 12000	3
Spanish Language	3	SPAN 10100, 10200	6
	4	SPAN 10100, 10200, 20100	9
	5	SPAN 10100, 10200, 20100, 20200	12
Spanish Literature*	3, 4, 5	SPAN 1XXXX	3
Statistics**	3, 4, 5	STAT 1XXXX	3
Studio Art Drawing	3, 4, 5	A&D 11300	3
Studio Art: 2-D	3, 4, 5	A&D 10500	3
Studio Art: 3-D	3, 4, 5	A&D 10600	3
U.S. Government and Politics	3, 4, 5	POL 10100	3
U.S. History	3, 4, 5	HIST 15100, 15200	6
World History	3, 4, 5		3

\*Undistributed credit counting toward total degree requirements and/or other requirements depends on degree program. Consult your academic advisor.

\*\*Can satisfy free elective requirements in degree program.

6. **Department Credit in Foreign Languages (101, 102, 201, and 202).** Students who take the Foreign Language Placement Test are placed in an appropriate course. Upon successful completion of the course, students may apply to the Department of Foreign Languages and Literatures for credit in lower level course(s) as appropriate.

## International Admission Requirements

The following documentation must be submitted in order to apply for an undergraduate program at Purdue University Calumet:

### A. International Undergraduate Student Application

You have two options for applying to Purdue University Calumet:

- **Apply online** at [https://banwebf.purduecal.edu/pls/proddad/bwskalog.P\\_DisLoginNon](https://banwebf.purduecal.edu/pls/proddad/bwskalog.P_DisLoginNon)
- **Apply by mail** using the application found at: <http://webs.purduecal.edu/intl/files/Undergraduate-International-Student-Application-Form.pdf>

#### Mail your application to:

Purdue University Calumet  
Office of International Admissions  
Classroom Office Building, Room 176  
2200 169th Street  
Hammond, Indiana 46323-2094

- **Apply by e-mail** using the application found at: <http://webs.purduecal.edu/intl/files/Undergraduate-International-Student-Application-Form.pdf>  
Email to [iadmissions@purduecal.edu](mailto:iadmissions@purduecal.edu)

*Note: A non-refundable undergraduate application fee will be assessed in 2012. Please see [www.purduecal.edu/admissions](http://www.purduecal.edu/admissions) for an update on the fee start date.*

### B. Proof of graduation from a secondary school (high school):

Original or attested copies of academic documents from all secondary schools attended should be mailed in a sealed envelope from the secondary school or the examination board. The record must be an official copy bearing an original stamp or seal. If the original is not in English, include a certified, detailed translation. A minimum of 2.25 grade point average is required for admission for those students applying to PUC directly from high school or without any college or university coursework completed.

### C. Proof of post-secondary school attendance:

If any post-secondary schools were attended, transcripts should be mailed in a sealed envelope from the college, university, or examination board. The record must be an official copy bearing an original stamp or seal. If the original is not in English, include a certified, detailed translation.

### D. One of the following to establish English proficiency:

- Test of English as a Foreign Language (TOEFL)  
Score of 550 or higher, for Paper exam  
Score of 79 or higher, for Internet Based TOEFL (iBT)
- International English Language Testing System (IELTS) Score of at least 6.5 or higher
- Successful completion of the Purdue University Calumet English Language Program
- Ordinary Level of General Certificate of Education (G.C.E.) or General Certificate of Secondary Education (G.C.S.E.)
- Scholastic Aptitude Test (SAT)  
Reading (verbal) score of 480 or higher
- A minimum of 15 transferable credits from an accredited U.S.-based institution of higher education, including an English Composition course equivalent to Purdue University Calumet's ENGL 104.
- Transferable credit from an accredited U.S. institution of higher education equivalent to Purdue University Calumet's ENGL 104, English Composition course.

Purdue University Calumet's school code is 001638 for all standardized tests including TOEFL, SAT, GRE and GMAT.

*Note: If you did not take or have low English test scores for entry into a degree-seeking program, you may still be eligible for admission to the Purdue Calumet English Language Program. Visit this website for more information and application materials: <http://webs.purduecal.edu/fis/applying/elp-admissions>*

### E. Transfer Credit and Documentation Sheet:

If you have attended any other college or university and plan to transfer credit hours to Purdue University Calumet as an undergraduate student, submit a \$30.00 (US) transfer credit evaluation fee, and original academic transcripts from an accredited college or university along with the form found at this webpage: <http://webs.purduecal.edu/intl/files/Transfer-Credit-and-Documentation-Sheet-.pdf>

### F. Application Deadlines and Mailing Address:

Please note that Purdue University Calumet must receive all required application materials, on or before the dates indicated below.

April 1 - Summer Semester  
June 1 - Fall Semester  
November 15 - Spring Semester

Please mail your application materials to:

Purdue University Calumet  
Office of International Admissions  
Classroom Office Building, Room 176  
2200 169th Street  
Hammond, Indiana 46323-2094

For information on admission requirements for International Graduate Students and the English Language Program, please visit: <http://webs.purduecal.edu/fis/>  
Additional information and resources related to international studies please contact The International Programs Office ([www.purduecal.edu/intl](http://www.purduecal.edu/intl)).

## International Educational Agents

Purdue University Calumet is part of the internationally respected Purdue University System. Purdue is a public university system, which encourages international students to apply for admission on their own and NOT PAY FOR EDUCATIONAL AGENTS.

# Fees for 2011-2012

Tuition and fees, set annually by the Purdue University Board of Trustees, are subject to change without notice. The fees listed below are for the 2011-2012 academic year.

## Tuition 2011-2012

Resident Undergraduate fee per credit hour	\$204.00
Nonresident Undergraduate fee per credit hour	\$488.90
Resident Graduate fee per credit hour	\$258.90
Nonresident Graduate fee per credit hour	\$570.25
Laboratory fee per lab hour	\$ 60.60
Registration for examination only	\$197.41
Registration for degree only	\$197.41
Technology fee per credit hour	\$ 8.25

## Regular Fees

**Application Fee for Undergraduate Programs** ..... \$ 25.00  
(The non-refundable fee is required for applications submitted after January 14, 2012.)

**Application Fee for Graduate School** ..... \$ 55.00

**Undergraduate Student Service Fee** ..... \$5.55 per credit hour

**Undergraduate Parking Fee** ..... \$5.15 per credit hour

**Graduate Parking Fee** ..... \$5.15 per credit hour

### Late Registration Fees:

For students who register after classes begin, an additional nonrefundable fee of \$8.50 per credit hour will be assessed.

**Transcript Evaluation Fee:** ..... \$ 30.00  
Fee is charged for evaluation of transfer credit. The fee is non-refundable and will not be credited to tuition and fees associated with course enrollment.

**Readmission Fee:** ..... \$100.00  
Those students dropped by the university for academic reasons are assessed a fee before application for readmission will be processed.

### Breakage Fees:

Usually included in course fees for the cost of normal breakage and wear and tear on equipment. An additional charge will be levied against individuals for excessive waste, loss or breakage, to be paid before course credit will be given.

**Replacement of Student Service Fee Card:** ..... \$ 15.00

**Encumbrance Fee:** ..... \$ 25.00  
If a student fails to fulfill any financial obligation to any university department, the student's records will be encumbered and the fee assessed to the student. Students will be notified in writing of the outstanding obligation and will be given a specified time to settle the account prior to assessing the fee.

*An encumbered record means that:*

- The student may not be allowed to register for courses at any Purdue University Campus and
- The student's official transcript will not be released until the financial obligation is satisfied

## Payment Responsibility/Payment Options

It is the student's responsibility to finalize payment options before the designated payment deadline date in order to prevent the cancellation of classes for the term enrolled. Students will save time and avoid long lines by selecting a payment option before the designated payment deadline date.

*Purdue University Calumet offers several convenient payment options to assist students to finance their educations.*

- **Web NBS/FACTS Payment Plan** (see section entitled Purdue University Calumet's NBS/FACTS Payment Plan for detailed information)
- **Access PCSTAR** (Purdue Calumet Student Access to Records) to easily and conveniently pay your bill for any semester that you are registered at Purdue University Calumet.
- **Accepted payment options online:** MasterCard, Visa, Discover, or Webcheck  
Access PCSTAR via the Web at:  
[www.purduecal.edu](http://www.purduecal.edu)
- **Mail:** Check to:

Office of Financial Aid and Student Accounts  
2200 169th Street  
Hammond, IN 46323-2094

- **Telephone:** Credit Card (MasterCard, Visa, or Discover)
- **Night Deposit Box** (located at the north side of Lawshe Hall off of Woodmar Avenue or at the Schneider Avenue building):  
—Check
- **In Person:** Credit Card (MasterCard, Visa or Discover), Debit Card, Cash, or Check. Students may select payment options in person at the Office of Financial Aid and Student Accounts located in the Enrollment Services Center, Lawshe Hall, Room 130.

For questions or concerns regarding payment responsibility and/or help with payment options, please contact the Office of Financial Aid and Student Accounts at 219-989-2560 or view their Web site at: [www.purduecal.edu/finaid](http://www.purduecal.edu/finaid)

## Purdue University Calumet's NBS/FACTS Payment Plan

Purdue University Calumet is pleased to offer the NBS/FACTS tuition payment plan to enable you to more easily afford your educational expenses. NBS/FACTS is a tuition management plan that provides you with a low cost plan for budgeting tuition and other educational expenses. It is not a loan program; therefore, interest and finance charges are not assessed, nor is a credit check required.

The NBS/FACTS payment plan is a convenient and inexpensive way for you to make your payments. Your tuition payment can be made by Automatic Bank Payment (ACH) from your checking or savings account or by credit card (Visa, MasterCard or American Express). Debit Cards are not accepted.

The NBS/FACTS tuition payment plan schedule is designed to give you flexibility in meeting your financial responsibility to Purdue University Calumet. All monthly payments are withdrawn on the 5th of each month. If you select either the Automatic Bank Payment (ACH) or the credit card option, there is a \$25 non-refundable enrollment fee per semester. All NBS/FACTS fees are processed directly from the account listed on the NBS/FACTS Agreement Form by either Automatic Bank Payment (ACH) or charged to your credit card, depending upon the payment option you select.

It is your responsibility to verify the NBS/FACTS plan balance by accessing MY-FACTS ([www.Factstuition.com](http://www.Factstuition.com)) and to notify Purdue University Calumet's Office of Financial Aid and Student Accounts at 219-989-2560 should you wish to make any changes to your agreement after it is set up by NBS/FACTS. All changes must be made 10 business days prior to the scheduled payment date.

The Office of Financial Aid and Student Accounts may adjust your NBS/FACTS payment plan balance for any financial aid disbursed, as well as added or dropped classes.

If you have any questions please call either NBS/FACTS Tuition Management Company at 1-800-609-8056, or the Purdue University Calumet Office of Financial Aid and Student Accounts at 219-989-2560.

## Refunds

Course fees, technology fees, and student services fees will be refunded for withdrawal from full term classes according to the following schedule:

100%	Prior to the semester starting
80%	During the first week of classes
60%	During the second week of classes
40%	During the third week of classes
20%	During the fourth week of classes
0%	After the fourth week of classes

Our policy during the summer semester is as follows:

100%	Prior to session starting
80%	During the first week of classes
40%	During the second week of classes
0%	After the second week of classes

Students must complete the withdrawal procedure by submitting a signed add/drop card to the Office of the Registrar (Enrollment Services Center — Lawshe Hall 130), to be eligible for a refund. A detailed schedule of the refund policy may be obtained from the Office of Financial Aid and Student Accounts. NOTE: By not attending classes, students have not officially withdrawn from classes at Purdue University Calumet. Students must follow the withdrawal procedure outlined above to be officially withdrawn from a course. Failure to do so could result in the student being charged and receiving a failing grade in the class. No refund will be given for courses dropped after the fourth week of the semester. Students whose registration is cancelled by the Dean of Students for disciplinary reasons will receive refunds based on this same schedule. Refunds of deposits on equipment are subject to regular service and breakage charges.

### Return of Financial Aid (Title IV) Funds

For students who are the recipients of financial aid (Title IV) funds and withdraw from all of their classes prior to October 28, 2011 for the fall 2011 semester, or March 22, 2012 for the spring 2012 semester, or withdraw prior to the completion of over 60% of any term, the institution is required to determine the amount of unearned financial aid funds that must be returned to the Title IV program(s). Depending on the amount of financial aid disbursed to students or onto students accounts, students may be liable for a portion of the amount of unearned financial aid that must be returned to the Title IV program(s). To fully withdraw from the university, students can initiate the withdrawal process by telephone by contacting the Office of the Registrar at (219) 989-2181 or by visiting the Enrollment Services Center located in Lawshe Hall, Room 130.

## Classification of Students as Resident or Non-Resident

The assessment of tuition and fees for a given semester is based on the student's residence classification on the first day of classes for that semester. Students who are not classified as residents of the State of Indiana are required to pay non-resident tuition. A student's residence classification continues in effect for subsequent semesters unless and until the classification is changed.

### Responsibility for Residence Classification

The Director of Admissions or a designee determines the initial residence classification of an undergraduate student at the point that the student is admitted or re-enters the university. The Executive Dean or a designee determines the initial residence classification of each graduate student at the time the student enters or re-enters the university.

All reclassifications are determined by the Registrar or a designee. Any of these authorities are authorized to require certificates, affidavits, documents, or any other evidence they deem necessary. The burden of proof is always on the student making a claim to resident student status. In addition to the required proof, to be considered domiciled in Indiana, a person must reside continuously in the state for a predominant purpose other than attending an institution of higher education for at least

12 months immediately preceding the first day of classes of the term for which resident classification is sought. Students who have further questions about residency reclassification may request a brochure from the offices of any of these authorities.

### Changes in Residence Classification for Tuition Purposes

Either the student or the university may initiate an inquiry of residency classification. The non-resident student has the responsibility to apply to the registrar for reclassification if the student believes that changes in the situation justify reclassification.

### To apply for a change

The student must apply in writing, using a form available from the Office of the Registrar, at any time after the requirements for domicile have been met, but no later than 15 days after the start of classes for the semester in which reclassification is sought. The Registrar will make a decision no later than 30 days after the completed application is filed.

### Penalties for Failure to Provide Adequate Information

A student who fails to notify the university of a change of facts or provides false information which might affect classification or reclassification from resident to non-resident status will be required to pay retroactively any tuition fees which would normally have been assessed.

The student who provides false information or conceals information to achieve resident status may also be subject to disciplinary action as well as other penalties under the law.

### Residence Classification Review

A student who is not satisfied with a determination concerning his/her residence classification may appeal the decision to the Residence Appeals Committee, which convenes on the Calumet campus. The appeal shall be in writing and shall include reasons for the appeal and a complete statement of the facts upon which the appeal is based, together with supporting affidavits, or other documentary evidence. The appeal must be filed within thirty days after the first day of classes of the academic session for which the determination is effective or within thirty days after the original decision has been reconsidered, whichever occurs later. Failure to file such an appeal within the specified time limit shall constitute a waiver of all claims to reconsideration for that academic session.

# Financial Aid

To help students meet the cost of their education, Purdue University Calumet's Office of Financial Aid and Student Accounts offers students financial assistance to meet educational costs beyond those which they and their families are able to afford.

## Should I Apply for Financial Aid?

It is recommended that ALL Purdue University Calumet students apply for financial aid. (Never assume you don't qualify for financial aid.) To find out if you are eligible for financial aid — federal, state, institutional, or private — YOU MUST APPLY! At Purdue University Calumet about 56% of all students enrolled receive some form of financial assistance.

## Who is Eligible?

Prospective first-time freshman applying for admission are required to meet the following:

- Be a U. S. citizen or eligible non-citizen
- Have a valid Social Security Number
- Have a high school diploma or a General Education Development (GED) certificate
- Be a regular degree-seeking students
- Make satisfactory academic progress

*Other requirements may apply. For more information, please contact the Office of Financial Aid and Student Accounts.*

## PROCESS

### Prospective Students

1. Complete an undergraduate admissions application at [www.purduecal.edu/apply](http://www.purduecal.edu/apply)
2. Estimate your federal financial aid by accessing <http://www.fafsa4caster.ed.gov>

### Newly Admitted Students

1. Logon to PC STAR at [www.purduecal.edu](http://www.purduecal.edu)  
PC STAR is a secure Web site where students can access their university records — see your admissions acceptance letter for your user name and password.
2. Estimate your federal financial aid by accessing <http://www.fafsa4caster.ed.gov>

## Can I Estimate My Financial Aid?

*You certainly can!*

An on-line Financial Aid Estimator is available to help students and families plan for educational costs at Purdue University Calumet.

<http://webs.purduecal.edu/ofasa/financial-aid-estimator/>

## How Do I Apply?

A single application called the FAFSA (Free Application for Federal Student Aid) is used to apply for all federal, state and institutional financial aid at Purdue University Calumet, including federal student and parent loans.

Students are encouraged to access [www.fafsa.gov](http://www.fafsa.gov) to file online. Filing online allows your application information to be processed faster (days vs. weeks). Edit checks built into software help prevent errors that could lead to processing delays.

*Filing online is a two-step process:*

**STEP 1:** Obtain a PIN (Personal Information Number) at [www.pin.ed.gov](http://www.pin.ed.gov)

*Note: If parent information is required on the FAFSA, the parent should also obtain a PIN. (The PIN serves as an electronic signature and allows viewing of FAFSA data online.)*

**STEP 2:** Complete a FAFSA online at [www.fafsa.gov](http://www.fafsa.gov)

*Note: A "pre-filled" FAFSA application is available on-line for students who submitted a FAFSA the prior year enabling them to "pre-fill" their FAFSA application with data from the prior year's FAFSA.*

*Although it is recommended you file online, a paper FAFSA can be requested by calling the Federal Student Aid Information Center at 1-800-4-FED-AID (1-800-433-3243 or 1-319-337-5665.)*

*Note: Expect a longer processing time when submitting a paper FAFSA. If you are hearing impaired, please contact the TTY line at 1-800-730-8913.*

In lieu of filing the FAFSA online or mailing in a paper FAFSA, students and parents can call the Federal Student Aid Information Center (FSAIC) and file by phone (1-800-4-FED-AID; 1-800-433-3243). FAFSA on the Phone (FOTP) provides applicants with real-time assistance from a customer service representative in completing the FAFSA. This new service is designed for applicants who do not have access to FAFSA on the Web and who are facing fast-approaching state application deadlines.

*Remember:*

- Applying for financial aid is FREE!
- You must reapply for financial aid every year!

## When Do I Apply?

Apply as soon AFTER January 1 as possible for the upcoming academic year (i.e. January 1, 2011 for 2011-2012). Do not submit your FAFSA before January 1 for the upcoming academic year. While it is easier to complete the FAFSA once you have filed your federal tax return, you can provide estimated tax information on your FAFSA and update your FAFSA data once you have completed your federal tax return. Submit your FAFSA so it is RECEIVED BY the Federal Processor by March 10th for the upcoming academic year (i.e. March 10, 2011 for 2011-2012; March 10, 2012 for 2012-2013). Applications RECEIVED BY March 10 by the Federal Processor will receive priority consideration for all funds — federal, state and institutional. Applications RECEIVED AFTER March 10 will be considered only for Federal Pell Grant, Federal Stafford Loan and Federal PLUS (parent/graduate) Loan funds.

## Am I Eligible?

When you complete the FAFSA, the information you report is used in a formula established by the federal government that calculates your Expected Family Contribution (EFC), an amount you and your family are expected to contribute toward your education. The formula considers many factors including income, taxes paid, assets, family size and number of family members in college when determining the family's ability to contribute. If you feel you or your family have unusual circumstances or expenses that may affect your EFC, contact the Office of Financial Aid and Student Accounts at Purdue University Calumet.

Eligibility for financial aid is based upon a determination of your financial need, which is the difference between the total cost of your education and your Expected Family Contribution (EFC).

$$\begin{array}{r} \text{TOTAL COST OF EDUCATION} \\ \text{MINUS (-) EXPECTED FAMILY CONTRIBUTION (EFC)} \\ \text{EQUALS (=) FINANCIAL NEED} \end{array}$$

*To receive financial aid, you must:*

- Have a high school diploma or a General Education Development (GED) certificate
- Be enrolled or accepted for enrollment as a regular degree-seeking student
- Be a U.S. citizen or eligible non-citizen

- Have a valid Social Security Number
- Make Satisfactory Academic Progress
- Register with the Selective Service, if required
- Have financial need (except for some loan programs and certain scholarships)

## What are the Types of Financial Aid?

The U.S. Department of Education offers the following student federal financial aid programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), Work-Study (FWS), Stafford Loan, PLUS Loan, and Perkins Loan.

The State of Indiana offers the following major student financial aid programs: Frank O'Bannon Grant, Twenty-first Century Scholars Program, National Guard Supplemental (NGS) Grant, Minority Teacher and Special Education Services Scholarship, State Nursing Scholarship, Children of Veteran and Public Safety Officer (CVO) benefits, and part-time grants.

These programs represent four basic types of aid: grants, scholarships, loans and employment.

- Grants are need-based aid which do not have to be re-paid
- Scholarships are merit or need-based aid that do not have to be re-paid
- Loans are borrowed money that you must repay with interest
- Employment (work-study) provides the opportunity for students to work and earn money

Graduate students may receive loans and/or FWS, as well as scholarships, but are not eligible for any grants. (See chart of financial aid programs available to students attending Purdue University Calumet on pages 21-23.) Purdue University Calumet offers numerous Merit and Need-Based Scholarships in addition to the federal and state funds awarded through the University. A scholarship search using the Internet is available at the following address: [www.purduecalumet.edu/finaid/scholarshipinfolinks.html](http://www.purduecalumet.edu/finaid/scholarshipinfolinks.html)

## How Much Does it Cost to Attend? Determining a Financial Aid Budget

The exact educational cost of attending Purdue University Calumet differs from student to student depending upon many factors, such as the number of classes taken each semester, transportation costs, and whether or not you live at home with your parents, or on campus.

The undergraduate financial aid budget chart shown below provides a sample of the estimated costs for both in-state and out-of-state students attending full and part-time during the academic year.

### Undergraduate Financial Aid Budget Chart and What Might a Financial Aid Package Look Like?

#### Undergraduate Financial Aid Budget — 2011-2012 Academic Year

EXPENSES	INDIANA RESIDENT		OUT-OF-STATE	
	Full-time (14 cr. hrs. per sem.)	Part-time (7 cr. hrs. per sem.)	Full-time (14 cr. hrs. per sem.)	Part-time (7 cr. hrs. per sem.)
<b>DEPENDENT</b>				
Tuition/Fees	6,821	3,411	14,798	7,399
Books/Supplies	1,500	750	1,500	750
Maintenance*	8,663	7,057	8,663	7,057
<b>TOTAL</b>	<b>16,984</b>	<b>11,218</b>	<b>24,961</b>	<b>15,206</b>
<b>INDEPENDENT</b>				
Tuition/Fees	6,821	3,411	14,798	7,399
Books/Supplies	1,500	750	1,500	750
Maintenance*	13,195	11,589	13,195	11,589
<b>TOTAL</b>	<b>21,516</b>	<b>15,750</b>	<b>29,493</b>	<b>19,738</b>

#### LIVING ON CAMPUS

Tuition/Fees	6,821	3,411	14,798	7,399
Books/Supplies	1,500	750	1,500	750
Maintenance*	12,396	11,014	12,396	11,014
<b>TOTAL</b>	<b>20,717</b>	<b>15,175</b>	<b>28,694</b>	<b>19,163</b>

The undergraduate financial aid budget chart shown here estimates the costs for both in-state and out-of-state students attending full and part-time.

\*Maintenance is an estimate of transportation, personal and living expenses, and average estimated loan fees. Personal tastes and living standard will affect the actual costs.

#### What might a Financial Aid Package look like to a First Year Student?

Cost of Education	\$16,984
minus Expected Family Contribution (EFC)	(-)\$ 1,000
equals Financial Need	\$15,984

Remember, applications not received by the federal processor by the March 10 deadline will be considered only for Pell Grants, Federal Stafford and Federal PLUS (parent/guardian) loans. You will not be considered for any State awards, Federal aid awarded through Purdue University Calumet, or any institutional financial aid.

	FAFSA Completed Before March 10	FAFSA Completed After March 10
Cost of Education	\$16,984	\$16,984
(-)		
Expected Family Contribution (EFC)	-\$1,000	-\$1,000
(=)		
Financial Need	\$15,984	\$15,984

#### SAMPLE AWARD PACKAGE

Pell Grant	\$4,600	\$4,600
Higher Education Award	2,294	0
Supplemental Education Opportunity	400	0
Federal Work Study	3,200	0
Stafford Loan (Subsidized)	3,500	3,500
Stafford Loan (Unsubsidized)*	<u>1,990</u>	<u>2,000</u>
Sample Award Package Total	\$15,984	\$10,100
Unmet Need	0	\$5,884

\*Award not based solely on financial need but overall budget (cost of attendance)

## Important Dates

### January

Complete the FAFSA online at [www.fafsa.gov](http://www.fafsa.gov)  
This Web site may be accessed also to obtain a PIN.

### February

Financial Aid Awareness Month! Attend special programs offered to assist you in completing your FAFSA such as "College Goal Sunday," a statewide initiative held in over thirty Indiana locations. Special programs are offered at the Purdue University Calumet main campus in Hammond and at our Academic Learning Center in Merrillville.

### March

Students whose FAFSA has been received by the Federal Processor by March 10 will receive priority consideration for State and institutional assistance for the upcoming academic year.

Complete your financial aid file with the Office of Financial Aid and Student Accounts.

### April/May

The first round of Award Notification notices are e-mailed to the student's PUC e-mail account and the e-mail address listed on the student's 2011-2012 FAFSA, if provided. Accept your award online via PCSTAR within 14 days of receipt of your award notification e-mail. Awarding occurs on a weekly basis as files become complete.

## Important Notes

- If you are a financial aid recipient and intend to fully withdraw from the university, you must initiate the withdrawal process by calling the Office of the Registrar at (219) 989-2210 or by visiting the Enrollment Services Center located in Lawshe Hall, Room 130.
- Remember, it is your responsibility to verify your account status with the Office of Financial Aid and Student Accounts and fulfill your payment obligation prior to the Priority Final Payment Date or your classes may be cancelled. If your Authorized Aid (aid ready to be disbursed onto your account) is less than your bill, you must pay the balance owed at the Office of Financial Aid and Student Accounts prior to the Priority Final Payment Date or your classes may be cancelled.
- If your Authorized Aid is greater than your bill, your classes will be held, and you will need to contact the Office of the Registrar should you choose not to attend. Note: Changes in enrollment may result in a revised Financial Aid award. You must notify the Office of Financial Aid and Student Accounts should you change your enrollment, stop attending, or drop below a half-time status.
- Access PC STAR (Purdue Calumet Student Access to Records) at [www.purduecal.edu](http://www.purduecal.edu) to view your financial aid and account information.

## Purdue University Calumet Scholarship Awards

The Purdue University Calumet Scholarship Awards program offers numerous scholarships ranging from \$100 to \$17,000 per academic year. Awards are based on academic merit and/or financial need. All students meeting scholarship criteria are automatically considered for Purdue University Calumet scholarships based on academic merit. A FASFA must be submitted in order to be considered for need-based scholarships. Separate scholarship applications are required for certain scholarships.

## Who Can I Call for Help?

Purdue University Calumet  
Enrollment Services Center  
Office of Financial Aid and Student Accounts  
Lawshe Hall, Room 130  
2200 169th Street  
Hammond, IN 46323-2094  
Phone: (219) 989-2301  
Fax: (219) 989-2141  
E-mail address: [finaid@purduecal.edu](mailto:finaid@purduecal.edu)  
Web: [www.purduecal.edu/finaid/](http://www.purduecal.edu/finaid/)

## Federal Student Aid Information Center

1-800-4-FED-AID (1-800-433-3243). This is a toll-free number.  
Call this number for FAFSA assistance/status

## TDD number at the Federal Student Aid Information Center

1-800-730-8913. Call this number for help with any federal student aid questions.

## Satisfactory Academic Progress Policy

(REVISED EFFECTIVE SUMMER 2011)

Both Federal statutes and U.S. Department of Education regulations require institutions of higher education to establish minimum standards of Satisfactory Academic Progress for students receiving federal aid. In addition all State Student Assistance Commission of Indiana (SSACI) program regulations (Frank O'Bannon Grant, Twenty-First Century Scholars, etc.) require students to meet the Satisfactory Academic Progress criteria established for federal student aid.

Satisfactory Academic Progress means a student is proceeding in a positive manner toward fulfilling degree or certification requirements. Satisfactory Academic Progress consists of two components of measurement, **quantitative** and **qualitative**, which measure:

1. Pace – Minimum Overall Completion Rate (67%)
  - a. Overall Earned Credit Hours  $\geq$  .67 x Overall Attempted Credit Hours
2. Timeframe – Maximum Total Attempted Credit Hours (150%)
  - a. Undergraduate: 192 overall attempted credit hour maximum (128 credit hours x 150%)
  - b. Graduate: 90 overall attempted credit hour maximum
3. GPA – Minimum Cumulative GPA (range 1.5 to 2.0)
  - a. Based on Classification

A student's Satisfactory Academic Progress status is reviewed at the end of each semester, including the summer term.

## Quantitative Measurement

1. Pace - Minimum Overall Completion Rate Percentage (67%)  
Number of overall earned credit hours must equal at least 67% of overall attempted credit hours

Student financial aid recipients must demonstrate measurable progress toward earning a degree by successfully completing 67% of all hours at Purdue Calumet, including all hours accepted in transfer and all hours included in an approved financial aid consortium agreement. The chart below shows whether a course with a specific course grade or course registration is included when determining attempted or earned credit hours or in the GPA calculation.

Grade	Course Registration Status	Counted In Attempted Credit Hours	Counted In Earned Credit Hours	Counted In GPA Calculation
A+, A, A-, B+, B, B-, C+, C-, D+, D, D-	RE	Yes	Yes	Yes
F, I, SI, PI, U, N, E, IN, IU, IX		Yes	No	No
IF		Yes	No	Yes
S, P		Yes	Yes	No
Incomplete – once grade assigned		Yes	Yes	Yes
CD, CA, CX, CL (dept credit)		Yes	Yes	No
Transfer Credits		Yes	Yes	No
	WN, CN, CD, DD, D1, D4, D6, D8	No	No	No
W	WA, WR, DO, D2	Yes	No	No
	Non-Credit Courses	No	No	No
	Repeat Courses (grade removed from prior course)	Yes	Yes	Yes
	Courses part of a financial aid consortium	Yes	Yes	No

## 67% Completion Rate Example

Aid Year	Overall Attempted Credit Hours	Min Required Credit Hours needed to meet 67% Pace Requirement	Overall Completed Credit Hours	Meeting Completion Rate Requirement?
2010-11	117	78.39 (117 x .67)	84	Yes

2. Timeframe - Maximum Total Attempted Hours Percentage (150%)  
Maximum of 192 attempted credit hours allowed for a 128 credit hour program

Student financial aid is available for up to 150% of the number of hours required to complete the degree program. For most undergraduate programs of study this provides up to 192 attempted semester hours for student financial aid recipients to complete a 128 semester hour program. Students in undergraduate programs of study requiring more than 128 hours may have their eligibility for student financial aid extended proportionately upon appeal. All hours attempted and hours accepted in transfer by Purdue Calumet (including those for which the student did not receive financial aid), as well as all credit hours included as part of an approved financial aid consortium agreement, count toward the 150% maximum total attempted hours. **Note: During the last semester of eligibility a student may only receive financial aid for the total number of credit hours remaining in their maximum timeframe.**

Students who have attempted the number of credit hours need to complete a degree may no longer be eligible for student financial aid. In addition, if it can be shown that the student will not be able to complete an undergraduate degree within the 150% maximum timeframe (generally 192 semester hours) student aid may be revoked.

*Note: Graduate students may receive financial aid for a maximum of 80 attempted credit hours.*

Degree Program	Maximum Credit Hours (Timeframe)
Associate's (71 hour program)	107
Bachelor's (128 hour program)	192
Master's	80

## Qualitative Measurement

### 3. GPA

#### Minimum overall cumulative GPA requirement based on Classification

Students must maintain the following cumulative grade point average (GPA) dependent on their classification to maintain financial aid eligibility.

Classification	Credits	Cumulative GPA
Undergraduate 1	0-14	1.5
Undergraduate 2	15-29	1.6
Undergraduate 3	30-44	1.7
Undergraduate 4	45-59	1.8
Undergraduate 5	60-74	1.9
Undergraduate 6	15-89	2.0
Undergraduate 7	90-104	2.0
Undergraduate 8	105+	2.0
Graduate/Professional	1+	3.0

#### GPA Minimum Requirement Example

Aid Year	Classification	Overall Cumulative GPA	Minimum Required Overall GPA (undergraduate)	Meeting Minimum Required Overall GPA Requirement
2010-11	2	2.10	1.6	Yes

**Changing Majors** – Students who change majors or degree programs during the academic year are strongly encouraged not to withdraw from any classes as doing so could impact their ability to meet the 67% PACE completion rate requirement and also put them at risk of exceeding the 150% maximum timeframe. Students who decide to change majors or degree programs should do so early in their academic career so as not to jeopardize their eligibility for student financial aid. Students who change majors or degree programs may be eligible for a one-time extension to the 150% timeframe. Appeal required.

**Repeat Courses** – All Courses that are retaken to improve a grade are counted in attempted hours but only one passing grade is counted towards the PACE completion rate.

**Incomplete Courses** – Student should notify Financial Aid and Student Accounts when a final grade is received.

**Undergraduate Transfer Students** – Undergraduate transfer students are subject to the 67% Pace Completion Rate and the 150% Maximum Total Attempted Hours Percentage requirements. All hours attempted while enrolled at Purdue Calumet and all transfer hours accepted by Purdue Calumet are included in Satisfactory Academic Progress determination. In addition, all courses counted as part of an approved Financial Aid Consortium Agreement will be included in the 67% and 150% calculations. Students with transfer credit hours may be eligible for a one-time extension to the 150% timeframe. Appeal required.

**Mandatory Non-Degree Credit Hour Courses or Zero Credit Hour Courses** – Students required to enroll in a non-degree or zero credit hour course may be eligible for an extension to the 150% timeframe. Appeal required.

**Independent Study** – If grades for an independent study course are not entered prior to the end of the semester the student must contact the Office of Financial Aid and Student Accounts when their grades are entered for re-evaluation.

**Excessive Elective Courses** – Students taking an excessive number of elective courses may have their financial aid revoked as these courses do not contribute to making satisfactory academic progress toward earning a degree.

**Study Abroad and Consortium Courses** – Hours enrolled in Study Abroad or Consortium courses are included in determining a student's Satisfactory Academic Progress status. Students may be required to provide the Office of Financial Aid and Student Accounts with a copy of their grade report or academic transcript as these courses are included in the 67% and 150% calculations.

**Additional Bachelor's Degree** - Students pursuing a second Bachelor's Degree may be eligible for a maximum of 90 additional semester hours of aid eligibility. The 67% completion standard still applies. Appeal required.

**Students Seeking Dual Bachelor's Degrees** – Students enrolled in two Bachelor's degree programs at the same time must still meet the 150% standard for completing their degrees and are not eligible for additional hours of aid eligibility. The 150% is calculated from the degree requiring the most hours. Appeal required.

**Otherwise Eligible Non-Degree Students** – Otherwise eligible non-degree students must meet undergraduate Satisfactory Academic Progress requirements.

**Academic Re-Admission** – University approval of Academic Re-Admission does not supersede Satisfactory Academic Progress requirements.

## EVALUATION OF SATISFACTORY ACADEMIC PROGRESS

**Financial Aid Warning Status** – Students failing to meet Satisfactory Academic Progress standards will be placed on Financial Aid Warning for the following semester during which time they remain eligible to receive student financial aid. **Students who fail to achieve the Quantitative and/or Qualitative component(s) of the Satisfactory Academic Progress Policy during their Warning period lose their eligibility for financial aid.** A student shall be removed from the Financial Aid Warning status at the end of the semester if he/she achieves the required Satisfactory Academic Progress Qualitative and Quantitative standards.

**Notification** – The Office of Financial Aid and Student Accounts will notify students of their Satisfactory Academic Progress status at the completion of each semester, including the summer term, via the student's Purdue Calumet e-mail address and/ or their personal e-mail address, if available. Students may also monitor their Satisfactory Academic Progress via PCSTAR (Purdue Calumet Student Access to Records).

**Satisfactory Academic Progress Appeal Process** – Student financial aid recipients failing to maintain the Quantitative and/or Qualitative component(s) of the Satisfactory Academic Progress Policy due to an extenuating circumstance beyond their control such as serious injury or illness involving the student, or death of an immediate family member, may submit an appeal, to the Office of Financial Aid and Student Accounts explaining their circumstances. Students must submit supporting documentation with the appeal which confirms this circumstance.

**Note: Appeals may only be submitted once the Satisfactory Academic Progress process is run and statuses updated at the completion of the semester/term.**

A student whose appeal is approved is placed on a Financial Aid PROBATION status for the following semester/term AND is required to work with his/her academic advisor to develop an ACADEMIC PLAN that moves the student toward meeting the Satisfactory Academic Progress Qualitative and Quantitative standards.

- Students on a Financial Aid **PROBATION** status are required to meet the following conditions to be eligible to receive financial aid for the subsequent semester:
  - Semester **GPA** must be equal to the cumulative GPA standard
  - Semester **PACE** completion rate requirement of 67%
  - Other conditions as outlined in the student's **ACADEMIC PLAN**
- **Students who meet the objectives outlined in their academic plan and the GPA and PACE completion rate requirements** during their Financial Aid **PROBATION** period remain **eligible to receive financial aid**. Students remain on the academic plan until they once again meet all Satisfactory Academic Progress standards. Note: A student's academic plan must be reviewed by the student and the academic advisor each semester and revised as needed.
- **Students who fail to meet the objectives outlined in their academic plan or the GPA or PACE completion rate requirements** during their Financial Aid **PROBATION** period **become ineligible to receive student financial aid** and can only regain their eligibility by once again fully meeting all Satisfactory Academic Progress Quantitative and Qualitative standards.

A student is only eligible to submit one Satisfactory Academic Progress appeal as an undergraduate student and one as a graduate student. The appeal form can be found at <http://www.calumet.purdue.edu/finaid/SAPAPPEAL.pdf>

**Transition to new policy.** A student who (1) had an appeal approved under the previous Satisfactory Academic Progress policy; (2) was enrolled during the 2010–2011 academic year; (3) earned a semester GPA equal to the cumulative GPA standard as outlined in the new Satisfactory Academic Progress policy during their last semester of enrollment at PUC; (4) has a semester PACE completion rate of 67% or greater during their last semester of enrollment at PUC; and (5) is within the maximum timeframe, will automatically be placed on a Financial Aid PROBATION status beginning with the Fall 2011 semester and be required to work with his/her academic advisor to develop an **ACADEMIC PLAN** that moves the student toward meeting the Satisfactory Academic Progress Qualitative and Quantitative standards. Students will receive an email notification as to their revised status. Students not enrolled during the 2010–2011 academic year should contact our office with respect to their status.

### RE-ESTABLISHING ELIGIBILITY WITHOUT AN APPROVAL APPEAL

Other than when an appeal is approved for unusual or mitigating circumstances and a student is placed on an academic plan, a student may re-establish eligibility by taking action that brings the student into compliance with the **qualitative** and **quantitative** components of the school's Satisfactory Academic Progress standard, including the maximum time frame. **A student's Satisfactory Academic Progress status is reviewed at the completion of each semester, including summer.**

### REGAINING YOUR STUDENT FINANCIAL AID ELIGIBILITY

A student may be awarded Federal Pell Grants, Federal Perkins Loans, Federal Supplemental Educational Opportunity Grants, and State financial aid (Frank O'Bannon Grant, Twenty-First Century Scholarship, etc.) for the payment period in which the student resumes Satisfactory Academic Progress or as the result of an approved appeal. For Federal Direct Loans the student regains eligibility for the entire period of enrollment in which the student again meets Satisfactory Academic Progress standards. Other rules and regulations governing federal and student financial aid programs still apply.

*This policy pertains to applicants for federal, state of Indiana, and Purdue University Calumet–controlled aid programs, including most student loan programs. If you have questions about the monitoring of Satisfactory Academic Progress not addressed in this policy please contact the Office of Financial Aid at 219/989-2301.*

*Note: Students retaking coursework will have their Title IV financial aid eligibility reviewed by the Office of Financial Aid and Student Accounts.*

# Financial Aid Programs Offered at Purdue University Calumet

(additional criteria may apply/programs are subject to change)

**Please contact the Office of Financial Aid and Student Accounts for additional information.**

Visit: Enrollment Services Center, Lawshe Hall, room 130 | Access: [www.purduecal.edu/finaid](http://www.purduecal.edu/finaid) | Call: 219/989-2301

**It is recommended that ALL students file the FAFSA (Free Application for Federal Student Aid). Students who file by March 10 and have a completed file at the time our first Award Notifications are emailed/mailed to students receive priority consideration for state and institutional assistance for the upcoming academic year.**

## Federal Student Aid Programs administered by the U.S. Department of Education: Source: National Association of Student Financial Aid Administrators (NASFAA) CORE 2009-10 – April 2009

Program	Description	Application	Annual/Aggregate Amts	Eligibility	Repayment Required
Federal Pell Grant	<ul style="list-style-type: none"> <li>Grant program (portable)</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required annually</li> </ul>	<ul style="list-style-type: none"> <li>Annual minimum and maximum vary</li> <li>\$976 minimum for 2010-2011</li> <li>\$5,550 maximum for 2010-2011</li> <li>Award adjusted based on actual enrollment each term</li> <li>Receive for a maximum of 18 semesters</li> </ul>	<ul style="list-style-type: none"> <li>Undergraduate students without 1st baccalaureate or professional degrees</li> <li>Based on need</li> </ul>	No
Federal Supplemental Educational Opportunity Grant (SEOG)	<ul style="list-style-type: none"> <li>Campus-based grant program; funds awarded by institution</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required annually</li> </ul>	<ul style="list-style-type: none"> <li>\$100 annual minimum</li> </ul>	<ul style="list-style-type: none"> <li>Undergraduate students without baccalaureate or professional degree</li> <li>First priority given to Federal Pell Grant recipients with "exceptional financial need" (defined by law)</li> </ul>	No
Federal Work-Study (FWS)	<ul style="list-style-type: none"> <li>Campus-based employment program; awarded by institution</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required annually</li> </ul>	<ul style="list-style-type: none"> <li>No minimum or maximum</li> <li>Award amount dictated by school policy</li> </ul>	<ul style="list-style-type: none"> <li>Undergraduate and graduate students</li> <li>Based on need</li> </ul>	No
Federal Perkins Loan	<ul style="list-style-type: none"> <li>Campus based loan program; funds awarded by institution; 5% interest</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required annually; Master Promissory Note (MPN)</li> </ul>	<ul style="list-style-type: none"> <li>Award amount dictated by school policy</li> </ul>	<ul style="list-style-type: none"> <li>Undergraduate and graduate students</li> <li>First priority given to students with exceptional need (defined by school)</li> <li>Must first have determination for eligibility/ineligibility for Federal Pell Grant</li> </ul>	Yes; begins 9 mos. after cessation for at least half-time enrollment; deferment and cancellation provisions available
Federal Direct Student Loan – Subsidized and Unsubsidized Stafford Loans	<ul style="list-style-type: none"> <li>Direct Loan funds from federal government; 4.5% fixed interest rate for undergrad, subsidized loans;</li> <li>6.8% fixed interest rate for grads and unsubsidized loans</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required annually; MPN obtained from Direct Loan servicer</li> </ul>	<ul style="list-style-type: none"> <li>\$3,500 1st year undergraduates</li> <li>\$4,500 2nd year undergraduates</li> <li>\$5,500 each remaining undergraduate year</li> <li>Undergraduate annual limits prorated for programs and remaining periods of enrollment less than an academic year</li> <li>\$5,500/year for teacher certification if already have baccalaureate</li> <li>\$8,500/year for graduate and professional students</li> </ul>	<ul style="list-style-type: none"> <li>Undergraduate and graduate students enrolled at least half-time</li> <li>Must first have determination of eligibility/ineligibility for Federal Pell Grant</li> <li>Must determine eligibility for subsidized Stafford Loan before determining eligibility for unsubsidized Stafford Loan</li> <li>Interest subsidy based on need</li> <li>Unsubsidized funds may be used to replace EFC</li> </ul>	Yes; begins 6 mos. after cessation for at least half-time enrollment; deferment possible; no interest subsidy on unsubsidized loan
Program	Description	Application	Annual/Aggregate Amts	Eligibility	Repayment Required

Federal Direct Student Loan – Additional Unsubsidized Stafford Loan	<ul style="list-style-type: none"> <li>Same as subsidized Stafford Loan</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required annually; MPN obtained from Direct Loan servicer</li> </ul>	<p><b>ANNUAL LOAN LIMITS</b></p> <p><i>Dependent undergraduates whose parents can borrow a PLUS:</i></p> <ul style="list-style-type: none"> <li>\$2,000/year</li> <li>Undergraduate annual limits prorated for program or remaining periods of enrollment less than an academic year</li> </ul> <p><i>Dependent students whose parents cannot borrow a PLUS:</i></p> <ul style="list-style-type: none"> <li>\$6,000/year 1st and 2nd undergraduate year</li> <li>\$7,000 each remaining undergraduate year</li> <li>Undergraduate annual limits prorated for programs or remaining periods of enrollment less than an academic year</li> <li>\$7,000/year for teacher certification</li> </ul> <p><i>Independent students:</i></p> <ul style="list-style-type: none"> <li>\$6,000/year 1st and 2nd undergraduate year</li> <li>\$7,000 each remaining undergraduate year</li> <li>Undergraduate annual limits prorated for program or remaining periods of enrollment less than an academic year</li> <li>\$12,000/year graduate or professional students</li> <li>\$7,000/year for teacher certification</li> </ul>	<ul style="list-style-type: none"> <li>Must have demonstration of eligibility/ineligibility for Federal Pell Grant</li> <li>Must determine eligibility for subsidized Stafford Loan before determining eligibility for additional unsubsidized Stafford Loan</li> <li>May be used to replace EFC</li> </ul>	Yes; same as subsidized Stafford Loan
Federal Direct PLUS	<ul style="list-style-type: none"> <li>Direct Loan funds from federal government; 7.9% fixed interest rate for Direct PLUS loan</li> </ul>	<ul style="list-style-type: none"> <li>Purdue Calumet requires the student to submit a FAFSA; PLUS MPN from Direct Loan Servicer</li> </ul>	<ul style="list-style-type: none"> <li>No annual or aggregate amounts, except parent or graduate or professional student may not borrow more than difference between cost of attendance and other financial assistance student expects to receive</li> </ul>	<ul style="list-style-type: none"> <li>Natural or adoptive parents (and stepparents if included on FAFSA) of eligible dependent undergraduates enrolled at least half time and graduate/professional students</li> <li>No adverse credit history</li> <li>Must not be in default on a federal loan</li> <li>Must be a U.S. citizen or eligible noncitizen</li> <li>May be used to replace EFC</li> </ul>	Yes; begins 60 days after fully disbursed

**State Aid Programs** administered by the State Student Assistance Commission of Indiana (SSACI)

Source: <http://www.in.gov/ssaci/2359.htm>

Program	Description	Application	Annual/Aggregate Amts	Eligibility	Repayment Required
Frank O'Bannon Grant (formerly the Indiana Higher Education Grant)	<ul style="list-style-type: none"> <li>State aid administered by the State Student Assistance Commission of Indiana (SSACI); targeted to tuition and regularly assessed fees based on financial need</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA received by the federal processor after Jan 1, 2009 but on or before March 10, 2009 for 2009-2010. (must be an error-free FAFSA by the May 15th receipt date deadline of the filing year.</li> </ul>	<ul style="list-style-type: none"> <li>Dollar value of state grants vary from year to year due to variations in appropriations, the number of filers and the "need" of the filer base.</li> <li>Award adjusted based on student's enrollment at the end of the Purdue Calumet refund period (4th week of classes). Applied only after all other tuition-specific aid is applied.</li> </ul>	<ul style="list-style-type: none"> <li>Indiana resident</li> <li>U.S. citizen or eligible noncitizen</li> <li>High school graduate or hold a GED</li> <li>Attend an eligible college or university</li> <li>Pursuing associate or first bachelors degree</li> <li>Full-time student (minimum 12 credit hours per semester)</li> <li>File FAFSA so received by March 10 of the academic year preceding the academic year the applicant plans to enroll</li> </ul>	No
Twenty-First Century Scholars Program	<ul style="list-style-type: none"> <li>Guarantees eligible students up to 4 years of undergraduate college tuition at any participating university in Indiana</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA received by the federal processor after Jan 1, 2009 but on or before March 10, 2009 for 2009-2010. (must be an error-free FAFSA by the May 15th receipt date deadline of the filing year.</li> </ul>	<ul style="list-style-type: none"> <li>Undergraduate tuition and regularly assessed fees at an approved public institution (up to a maximum of 15 credit hours per term). Does not cover the cost of books, room and board, parking fees, lab fees or any other fees assessed that are not assessed to ALL students.</li> <li>Award adjusted based on student's enrollment at the end of the Purdue Calumet refund period (4th week of classes)</li> <li>Applied only after all other tuition-specific aid is applied.</li> </ul>	<ul style="list-style-type: none"> <li>Be a resident of Indiana (determined by residency of parent/legal guardian)</li> <li>U.S. Citizen</li> <li>Apply in the 6th, 7th, or 8th grade</li> <li>Meet program income guidelines</li> <li>Attend a school recognized by the Department of Education full-time</li> <li>Make a commitment to fulfill the Scholars Program</li> <li>File FAFSA so received by March 10 of the academic year preceding the academic year the applicant plans to enroll</li> </ul>	No
Part-time State Grant Program	<ul style="list-style-type: none"> <li>Designed to help those undergraduates who are taking at least 3 but less than 12 credit hours per term at an eligible institution.</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA received by the federal processor after Jan 1, 2009 but on or before March 10, 2009 for 2009-2010</li> </ul>	<ul style="list-style-type: none"> <li>Need-based award</li> <li>Minimum award is \$50 per term</li> <li>Program eligibility determined at the institutional level subject to approval by SSACI</li> <li>First priority for the award is given to students meeting certain income guidelines</li> <li>Calculated and awarded on a term by term basis</li> <li>Institutional are allocated a fixed amount of money to award each year</li> <li>Applied only after all other tuition-specific aid is applied.</li> </ul>	<ul style="list-style-type: none"> <li>Meet state residency requirements</li> <li>Filed a FAFSA</li> <li>Otherwise qualify for state aid</li> </ul>	No

Program	Description	Application	Annual/Aggregate Amts	Eligibility	Repayment Required
Child of Veteran and Public Safety Officer Supplemental Grants Program	<ul style="list-style-type: none"> <li>Provides tuition and fee assistance at public colleges for eligible children of disabled Indiana veterans, eligible children and spouses of certain members of the Indiana National Guard killed while serving on state active duty, and eligible children and spouses of certain Indiana public safety officers killed in the line of duty.</li> </ul>	<ul style="list-style-type: none"> <li>CDV application required</li> <li>File the FAFSA each year at least 2 weeks before the start of classes</li> </ul>	<ul style="list-style-type: none"> <li>As a supplement to other state financial aid, the grant pays 100% of tuition and program related mandatory fees; it does not cover other fees such as room and board. Pay Undergraduate rate for Graduate students.</li> <li>Some program restrictions apply and financial assistance is limited to a maximum number of credit hours.</li> </ul>	<ul style="list-style-type: none"> <li>Veteran must meet certain Indiana residency requirements</li> <li>Child must be the biological child or legally adopted dependent child of the veteran</li> <li>Covered student must be regularly admitted as an in-state student to an Indiana public college</li> <li>Must maintain Satisfactory Academic Progress (as defined by the college)</li> <li>Other restrictions might apply See SSACI website <a href="http://www.in.gov/ssaci/2359.htm">www.in.gov/ssaci/2359.htm</a> for other program requirements</li> </ul>	No
Indiana National Guard Supplemental Grant	<ul style="list-style-type: none"> <li>Guarantees up to 100% of certain tuition costs will be met by the State of Indiana for eligible members of the Indiana Air and Army National Guard; covers only certain tuition charges and does not cover other expenses such as room and board and textbooks. Subject to available funds.</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA must be filed every year so that it is received by March 10th of each year the student intends to enroll in college (must be an error-free FAFSA by the May 15th receipt date deadline of the filing year).</li> </ul>	<ul style="list-style-type: none"> <li>Grant amounts based on 30 hours of enrollment per academic year, or 15 hours per semester.</li> <li>Students enrolled in at least 12 but less than 15 credit hours per semester will have their grants reduced if the actual tuition falls below the approved tuition used to estimate the grant.</li> </ul>	<ul style="list-style-type: none"> <li>Applicant must be certified by both SSACI and the Indiana National Guard (ING)</li> <li>Attend a state funded university</li> <li>Can be used only in the fall and spring semesters</li> <li>State residency requirements apply</li> <li>High School graduate or have a GED.</li> <li>Student must be seeking first associate or bachelor degree (cannot be used for graduate school)</li> <li>Students can receive a total of 8 semesters of state aid in any combination</li> <li>Must certify each term of enrollment meets National Guard eligibility</li> </ul>	No
Nursing Scholarship	<ul style="list-style-type: none"> <li>Created to encourage and promote qualified individuals to pursue a nursing career in Indiana</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required</li> </ul>	<ul style="list-style-type: none"> <li>Maximum annual amount of \$5,000</li> <li>Colleges determine the actual award</li> <li>Can only be applied to tuition and fees</li> <li>Scholarship amount may be affected by the level of other tuition specific grants and scholarships received by the applicant</li> </ul>	<ul style="list-style-type: none"> <li>Admitted to an approved institution as a full time or part time nursing student</li> <li>Indiana resident and an US citizen</li> <li>Agree in writing to work as a nurse in Indiana for 2 years following graduation</li> <li>Demonstrate financial need</li> <li>Maintain 2.0 GPA</li> <li>Not be in default on a student loan</li> <li>Meet other criteria</li> </ul>	No
Minority Teacher/Special Education Services Scholarship (MTS)	<ul style="list-style-type: none"> <li>Created to address the critical shortage of Black and Hispanic teachers in Indiana.</li> </ul>	<ul style="list-style-type: none"> <li>FAFSA required</li> </ul>	<ul style="list-style-type: none"> <li>Awards made by the colleges</li> <li>Financial need may be considered but not a requirement</li> <li>Award maximum: \$1,000</li> <li>Up to \$4,000 if minority student applicant demonstrates financial need</li> </ul>	<ul style="list-style-type: none"> <li>Minority student (Black or Hispanic) seeking a teaching certification; or student seeking a Special Education teaching certification; or student seeking an Occupational or Physical Therapy certification</li> <li>Indiana resident and an US Citizen</li> <li>Admitted to eligible institution as a fulltime student</li> <li>Pursing a course of study that would enable the student upon graduation to teach in an accredited elementary or secondary school in Indiana</li> <li>Not be in default on a student loan</li> <li>Meet all minimum criteria</li> <li>Maintain a 2.0 GPA</li> </ul>	No

**Institutional Scholarships** administered by the U.S. Department of Education:Source: <http://www.purduecal.edu/finaid/scholarshipinfo.html>

Program	Description	Application	Annual/Aggregate Amts	Eligibility	Repayment Required
Merit Scholarships	<ul style="list-style-type: none"> <li>Scholarships awarded based on student's academic strength and/or other criteria</li> <li>Not need-based.</li> </ul>	<ul style="list-style-type: none"> <li>No separate application required for a majority of the scholarships.</li> <li>A separate application is required for a few scholarships: <a href="http://www.calumet.purdue.edu/finaid/scholarshipinfo.html">www.calumet.purdue.edu/finaid/scholarshipinfo.html</a></li> <li>View a complete listing of scholarships at: <a href="http://esc.purduecal.edu/finaid/scholarships/ScholarList.asp">http://esc.purduecal.edu/finaid/scholarships/ScholarList.asp</a></li> </ul>	<ul style="list-style-type: none"> <li>Award amount determined by Purdue University Calumet depending on fund availability</li> </ul>	<ul style="list-style-type: none"> <li>All students admitted to Purdue University Calumet are automatically considered.</li> <li>Eligibility criteria established by scholarship donor(s)</li> <li>View a complete listing of scholarships and selection criteria at: <a href="http://esc.calumet.purdue.edu/finaid/scholarships/ScholarList.asp">http://esc.calumet.purdue.edu/finaid/scholarships/ScholarList.asp</a></li> </ul>	No
Need-based Scholarships	<ul style="list-style-type: none"> <li>Scholarships awarded based on academic strength AND financial need</li> </ul>	<ul style="list-style-type: none"> <li>FASFA required</li> <li>View a complete listing of scholarships at: <a href="http://esc.purduecal.edu/finaid/scholarships/ScholarList.asp">http://esc.purduecal.edu/finaid/scholarships/ScholarList.asp</a></li> <li>A separate application is required for a few scholarships: <a href="http://www.calumet.purdue.edu/finaid/scholarshipinfo.html">www.calumet.purdue.edu/finaid/scholarshipinfo.html</a></li> </ul>	<ul style="list-style-type: none"> <li>Award amount determined by Purdue University Calumet depending on fund availability</li> </ul>	<ul style="list-style-type: none"> <li>Eligibility criteria established by scholarship donor(s)</li> <li>View a complete listing of scholarships and selection criteria at: <a href="http://esc.purduecal.edu/finaid/scholarships/ScholarList.asp">http://esc.purduecal.edu/finaid/scholarships/ScholarList.asp</a></li> </ul>	No
Chancellor's Scholars	<ul style="list-style-type: none"> <li>Recognizes students who graduate as Valedictorian (#1) or Salutatorian (#2) of their high school class</li> </ul>	<ul style="list-style-type: none"> <li>Separate application required:</li> <li><a href="http://webs.purduecal.edu/admissions/scholarships/">http://webs.purduecal.edu/admissions/scholarships/</a></li> <li>Recipients selected by Office of Undergraduate Admissions based on fund availability</li> </ul>	<ul style="list-style-type: none"> <li>100% of tuition and fees, 50% of the rental at the University Village, and a monetary allowance toward the purchase of course books and supplies</li> <li>Award adjusted if student is in receipt of other tuition-specific aid or scholarships</li> <li>Restricted to fall and spring semesters only</li> </ul>	<ul style="list-style-type: none"> <li>High School graduate from a secondary institution that offers competitive class rankings.</li> <li>High School Valedictorian or Salutatorian as determined by a final official high school transcript</li> <li>Minimum SAT score of 1100 (CR&amp;M) or equivalent ACT exam</li> <li>Minimum high school GPA of 3.5/4.0 (five subject GPA - math, English, lab science, social studies and foreign language)</li> <li>U.S. Citizen</li> <li>Full-time degree seeking undergraduate student</li> <li>Begin classes within one year of graduation from high school</li> <li>Recipients must maintain a graduate index of 3.0 or higher</li> <li>Eligible for a maximum of 4 consecutive academic years, or if enrolled in a cooperative education program a maximum of 5 consecutive years, starting with the first semester the award is scheduled to begin</li> </ul>	No
Academic Achievement Scholarship (formerly the Best and Brightest Scholarship)	<ul style="list-style-type: none"> <li>Awarded to recent high school graduates for a maximum of four (4) consecutive years.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>\$2,000 per year (Indiana residents) - \$8,000 over four years</li> <li>\$4,000 per year (non-Indiana residents) - \$16,000 over four years</li> </ul>	<ul style="list-style-type: none"> <li>Minimum SAT score of 1100 (CR&amp;M) or equivalent ACT exam</li> <li>Minimum overall high school GPA of 3.0/4.0</li> <li>Direct admit into program of study at Purdue Calumet</li> </ul>	No
Purdue Calumet Transfer Scholarship (formerly the Best and Brightest Scholarship)	<ul style="list-style-type: none"> <li>Awarded to any transfer student with 60 transferable hours to Purdue Calumet for a maximum of two (2) consecutive years</li> </ul>	<ul style="list-style-type: none"> <li>Yes - <a href="http://www.purduecal.edu/finaid/PUC_TRANS.pdf">http://www.purduecal.edu/finaid/PUC_TRANS.pdf</a></li> </ul>	<ul style="list-style-type: none"> <li>\$2,000 per year (Indiana residents) - \$4,000 over two years</li> <li>\$4,000 per year (non-Indiana residents) - \$8,000 over two years</li> </ul>	<ul style="list-style-type: none"> <li>Minimum cumulative GPA of 3.0/4.0</li> <li>Direct admit into program of study at Purdue Calumet</li> </ul>	No
Graduate Distinction Scholarship (formerly the Best and Brightest Scholarship)	<ul style="list-style-type: none"> <li>Awarded to post-graduate students for a maximum of three (3) consecutive years</li> </ul>	<ul style="list-style-type: none"> <li>Yes - <a href="http://www.purduecal.edu/finaid/GRAD_DIST.pdf">http://www.purduecal.edu/finaid/GRAD_DIST.pdf</a></li> </ul>	<ul style="list-style-type: none"> <li>\$2,000 per year (Indiana residents) - \$6,000 over three years</li> <li>\$4,000 per year (non-Indiana residents) - \$12,000 over three years</li> </ul>	<ul style="list-style-type: none"> <li>Minimum cumulative GPA of 3.0/4.0</li> </ul>	No

Program	Description	Application	Annual/Aggregate Amts	Eligibility	Repayment Required
Honors Scholarship	<ul style="list-style-type: none"> <li>■ Awarded to those Honors students who meet eligibility requirements For more information send an e-mail to: honors.program@calumet.purdue.edu</li> </ul>		<ul style="list-style-type: none"> <li>■ \$3,000 annually (in-state)</li> <li>■ \$4,000 annually (out-of-state)</li> <li>■ Restricted to payment of tuition and fees</li> </ul>	<p><b>HONORS PROGRAM PARTICIPATION</b></p> <p><i>Entering 1st year students:</i></p> <ul style="list-style-type: none"> <li>■ 3.5/4.0 High School GPA AND 1100 SAT CR&amp;M, including minimum score of 450 in each of these two areas OR</li> <li>■ ACT composite score of 25 including a minimum score of 21 on each component (CR&amp;M).</li> </ul> <p><i>Current Purdue Calumet Students or transfer students:</i></p> <ul style="list-style-type: none"> <li>■ 3.5/4.0 cumulative GPA based on a minimum of 30 credit hours of college coursework</li> <li>■ Complete at least 10 volunteers hours per year and at least 50 volunteer hours during their undergraduate program</li> <li>■ Renewable for up to 4 years as long as you remain academically qualified</li> </ul> <p><i>To maintain the Scholarship:</i></p> <ul style="list-style-type: none"> <li>■ Complete at least 2 Honors courses per academic year and tally 100 participation points</li> <li>■ For further information go to: <a href="http://webs.purduecalumet.edu/honors/">http://webs.purduecalumet.edu/honors/</a></li> </ul>	No
Enrollment Incentive Award	<ul style="list-style-type: none"> <li>■ Program offering selected students with the opportunity to pursue a bachelor's degree at Purdue Calumet at in-state tuition rates for certain courses</li> </ul>	<ul style="list-style-type: none"> <li>■ Separate application required available at: <a href="http://webs.calumet.purdue.edu/admissions/students/transfer-student/eiap/">http://webs.calumet.purdue.edu/admissions/students/transfer-student/eiap/</a></li> </ul>	<ul style="list-style-type: none"> <li>■ Covers the difference between the out-of-state tuition and the tuition for Indiana residents for 300 and/or 400 level courses.</li> <li>■ For an academic year the value of this program exceeds \$1,700 per semester when enrolled in 9 credits at the 300 and/or 400 level</li> <li>■ Award is restricted to fall and spring semesters only</li> <li>■ Limited to 4 out of 6 continuous enrollment periods, excluding summer and co-op</li> <li>■ Purdue Calumet can only offer a limited number of Awards each semester. Purdue Calumet may discontinue the program at any time. Should the program be discontinued awards will cease for the current program participants. There is no guaranteed entitlement of an award for 4 enrollment periods.</li> </ul>	<ul style="list-style-type: none"> <li>■ First time Purdue Calumet student</li> <li>■ Must have a minimum of 60 transferable college credits to Purdue Calumet</li> <li>■ Must have a minimum cumulative GPA of 3.0 in all previous college coursework</li> <li>■ Must be enrolled for a minimum of 9 credit hours at the 300 and/or 400 level per semester at Purdue Calumet for the award to apply to their tuition</li> </ul>	No

**PUC Enrollment Guidelines for Financial Aid purposes:**

*Undergraduate Student: Full-time is 12 or more credit hours; ¾ time is 9-11 credit hours; ½ time is 6-8 credit hours*

*Graduate Student: Full-time is 8 or more credit hours; ¾ time is 6-7 credit hours; ½ time is 4-5 credit hours*

# Academic Regulations

Students who enter institutions of higher education agree to know and abide by the rules of their institutions. Listed in this section of the catalog are some of the specific regulations which govern student and academic programs. Other regulations are listed in the Student Handbook, which is available to students via the Web at [www.calumet.purdue.edu/stuserve/](http://www.calumet.purdue.edu/stuserve/). A complete set of academic regulations is available to students in the Office of the Dean of Students, SUL (Student Union and Library), Room 314.

## Academic Advising and Program Requirements

Students are expected to know the requirements for the degree(s) in which they are pursuing. New for the Spring 2010 Registration period, students can view their program requirements on-line by using the new DegreeWorks application. Students can access DegreeWorks from PCSTAR or MyPUC portal.

Within DegreeWorks Students and Advisors can:

- Track progress toward a degree.
- Plan class schedules for future semesters.
- Consider 'What-if' – in terms of changing majors to another program.
- DegreeWorks will show how coursework will be applied.

Students are also expected to meet with their academic advisor periodically in order to ensure continued progress toward their program of student degree requirements.

## Academic Calendar

The academic calendar shall consist of two, 16-week semesters and one summer session. Refer to our website at [www.purduecal.edu/registrar](http://www.purduecal.edu/registrar) for exact dates.

## Majors and Degree Programs

Students are assigned to an academic advisor based upon their major. Students opting to change their major may do so by completing a Change of Degree Objective form available online at [www.purduecal.edu/registrar](http://www.purduecal.edu/registrar).

## Registration for Classes

There are three registration periods for the fall, spring, and summer sessions.

**PRIORITY REGISTRATION:** allows students an opportunity to pre-register in order to enroll in the courses they need.

**OPEN REGISTRATION:** for students unable to register early and for students who may need to adjust their schedules.

**LATE REGISTRATION:** held during the first week of classes (special schedule for summer) and to allow students to make section and class changes. A penalty fee is charged to students who enroll during this period. (See p. 16 for late registration fees.)

### Adding Courses

Students may add courses during the first four weeks of the semester by submitting a completed add/drop card to the Office of the Registrar. Only the advisor's signature is required during the first week whereas the signatures of both the academic advisor and instructor of the class being added are required during the second, third, and fourth weeks of the semester.

### Dropping Courses

Students may withdraw from courses by submitting an add/drop card to the Office of the Registrar.

The time period in which a student withdraws from a course determines the recording of the course on the student's transcript. The following guidelines apply to the sixteen week Fall and Spring semesters only. Accelerated term and Summer term refund schedules are calculated based upon a modified schedule.

- Weeks one through three—no grade recorded on academic record
- Weeks four through twelve—W grade recorded on academic record
- After the twelfth week—no withdrawals are allowed

## Attendance

*Failure to attend does not constitute an official withdrawal from a course.*

Students are expected to be present for every meeting of a class in which they are enrolled. At the beginning of each semester, instructors are responsible for clarifying their policy for handling class absences and the impact absences will have in the determination of course grades.

Students with loans making a change in enrollment may revise their financial aid award. The student should notify the Office of Financial Aid immediately if there is a change in enrollment.

Excessive Absence. A student may be administratively withdrawn from a course for excessive absences upon recommendation of the instructor. Grades of W, WN, or WA may be assigned.

## Grades

Students must complete all required work for courses by the last scheduled class. The only exception is if the course has been cancelled. At the end of each semester, students will receive a grade from the instructor for each course they enroll in. The grade indicates the student's level of achievement of the objectives of the course. Grades offered at Purdue Calumet are listed below.

*For Credit Courses*

A+/A — highest passing grade

A-

B+

B

B-

C+

C

C-

D+

D

D- — lowest passing grade, indicating achievement of the minimum objectives of the course

E — conditional failure, meaning failure to achieve minimum objectives, but only to such limited extent that credit can be obtained by examination or otherwise without repeating the entire course.

This grade represents failure in the course unless the record is changed within one semester, by examination or otherwise. In any case, the grade cannot be changed to any other grade but a D.

F — failure to achieve minimum objectives of the course. The student must repeat the course and complete it satisfactorily in order to establish credit for it.

*For courses in the pass/not pass option*

P — passing grade, equivalent to A, B, or C.

N — not passing

*For zero credit courses (includes thesis research but not laboratory portions of courses which are scheduled by separate designations)*

S — satisfactory; meets course objectives.

U — unsatisfactory; does not meet course objectives.

*For incomplete work, credit or noncredit:*

I — incomplete, no grade; a temporary record of work which was passing when interrupted by unavoidable absence or other causes beyond a student's control.

An instructor may require a recommendation from the Dean of Students or a designee that the circumstances warrant a grade of I. The student must achieve a permanent grade in the course no later than the twelfth week of the second semester subsequent to the enrollment. If not, the I will become IF.

If the student is not enrolled for a period of three years following the semester in which the incomplete is given, the incomplete grade will be permanent. The grade will not revert to a failing grade, nor will the student be able to earn credit

for the course by completing the work. THIS ACADEMIC REGULATION DOES NOT APPLY TO INCOMPLETES RECEIVED PRIOR TO SUMMER 1999.

PI —incomplete, no grade; same as I for student enrolled in pass/not pass option.

SI —incomplete, no grade; same as I for student enrolled in zero-credit course.

### Other

The Registrar records the following grades and symbols in special circumstances:

W— withdrew; grade records that student was enrolled in a credit course and withdrew or cancelled the course after the third week (see Registration for summer schedule).

IF— assigned by the Registrar. Failure to complete an I grade by the twelfth week of the second semester subsequent to enrollment in a credit course. Counted as F in the scholarship index.

IN— unremoved incomplete and failing; failing to complete a pass/not pass course in which the student received a PI by the twelfth week of the second semester subsequent to enrollment in the course. Does not affect scholarship index.

IU— unremoved incomplete and failing; failing to complete a zero-credit course in which a student received an SI by the twelfth week of the second semester subsequent to enrollment in the course. Does not affect scholarship index.

IX— assigned by the Registrar. Student not enrolled three years after incomplete was given, then incomplete will be permanent. Does not affect scholarship index.

## Pass/Not Pass Option

The Pass/Not Pass option provides students with the opportunity to broaden their educational foundations with less concern for the grades they earn. Grades earned under this option are not used in computing scholarship indexes. The option is open to students according to the guidelines established for their majors.

Students may choose this option in any course which does not already appear on the academic record and in which the student is otherwise eligible to enroll for credit with a letter grade. Students choose this option when they register for the course; they cannot change to the pass/not pass option after the fourth week of the semester. The Office of the Registrar will indicate which students have elected this option. A student who enrolls in a course under this option has the same obligation as one who is enrolled for credit with a letter grade.

When instructors report final grades, they report that any student who would have earned a grade of A, B, or C has passed the course, and that any other student has not passed. The Registrar makes an appropriate notation on the student's academic record in place of a letter grade but does not use the course grade in computing scholarship indexes.

In addition to these regulations, the following schools and departments have established their own rules for the types and uses of courses elected under this option.

### Communication and Creative Arts, English and Philosophy, Foreign Languages and Literatures, History and Political Science, Behavioral Sciences:

1. Semester classification of three and above.
2. Graduation index of 2.00 and above.
3. Only for courses outside departmental and school requirements for electives. Exception: HTM 301 must be taken pass/not pass for students in the HTM programs.
4. Standard registration procedures must be followed, including regulations, such as add/drop procedures, withdrawal from courses, and so on.
5. Students must indicate upon registering which courses they wish to take using the pass/not pass option.
6. Students may elect courses given in other schools under the pass/not pass option.
7. Students transferring from another discipline who pass a course required by the major under the pass/not-pass option will be considered, upon transfer, to have satisfied the requirements.

### Biological Sciences (except Agriculture), Chemistry and Physics (except Chemical Technology) Mathematics, Computer Science, and Statistics:

1. Semester classification of three and above.
2. Graduation index of 2.50 and above.
3. Students may not use pass/not pass credits for more than 20% of the total credit hours required for graduation.
4. No more than two such courses per year. Courses taken in summer sessions apply to the year preceding the summer session.
5. Only free electives and courses in the humanities and behavioral and social sciences core may be taken under the pass/not pass option. Such courses may be used to satisfy that portion of the core only if they are more advanced than those usually elected at the student's level.

### Agriculture:

1. Semester classification of three and above.
2. Graduation index of 2.00 and above.
3. No more than 21 credits of elective courses taken under the pass/not pass option will be used toward graduation.

### Construction Science & Organizational Leadership, Engineering Technology, Computer Information Systems and Graphics

1. Students may use the pass/not pass option in any course which does not already appear on the students' academic record, and in which the students are otherwise eligible to enroll for credit with letter grade.
2. Students may not use pass/not pass credits for more than 20% of the total credit hours required for graduation.
3. Students will not be permitted to use the pass/not pass option until the students' advisor agrees that the course is desirable for the students to take, given the students' particular situations.

### Education:

1. Semester classification of three and above.
2. Graduation index of 2.00 and above.
3. Students may elect the pass/not pass option only in courses outside departmental and school requirements.
4. Students may elect courses given in other schools of the university under the pass/not pass option.
5. Students transferring from another discipline who pass a course required by the major under the pass/not pass option will be considered, upon transfer, to have satisfied the requirements.

### Engineering: Electrical and Computer Engineering or Mechanical Engineering

*\*This option is available to students only for Humanities/Social Sciences electives.*

### Management:

1. Semester classification of four and above. Students with a semester classification of three may select the pass/not pass option under special circumstances only.
2. Students in Management programs may elect the pass/not pass option for no more than two courses. The two courses that may be taken under this option are restricted to free electives in the program.
3. Students on academic probation must complete at least 12 credit hours with letter grades in one semester before taking courses under the pass/not pass option. Students on academic probation for a second consecutive semester may not elect the pass/not pass option until they are removed from probationary status.

### Nursing:

*\*\*Students may elect the pass/not pass option for elective courses only.*

### Center for Student Achievement:

*Not available to students in the Center for Student Achievement.*

## Students in Good Standing

For reports and communications to other institutions and agencies, students are considered in good standing unless they are dismissed, suspended, or academically dropped from the university without being formally readmitted.

### Scholastic Indexes

The scholastic standing of all students in programs leading to an undergraduate degree is determined by two indexes.

**SEMESTER INDEX.** An average determined by weighting each grade received during a semester by the number of credit hours in the course.

**GRADUATION INDEX.** A weighted average of all the student's grades in all courses accepted by the school in which the student is enrolled, plus all other grades received in courses taken in other curricula properly transferred.

**SUBSTITUTION OF GRADES.** With the advisor's consent, a student may repeat a course and substitute the most recent grade, unless it is an I.

### Semester/Cumulative Grade Point Average Scale Information

Quality points are allocated to each recorded grade according to the following scale:

	B+ = 3.333	C+ = 2.333	D+ = 1.333
A = 4.000	B = 3.000	C = 2.000	D = 1.000
A- = 3.667	B- = 2.667	C- = 1.667	D- = 0.667

To determine your semester grade point average, you will need to determine the number of total semester points you earned this semester and the total credit hours you had attempted.

### Semester Points/Semester Credits Attempted = Semester GPA

Example below:

COURSES	CREDITS	GRADE	POINTS
SOC 100	3	A	3x4=12.0
CHM 115	4	C+	4x2.3=9.2

Sem. Credit Hours = 7    Sem. Grade Points = 21.2

Sem. Grade points/Semester Credits Attempted = Sem. GPA

Example:  $21.2 / 7 = 3.03$

To determine your overall grade point average, you will need to determine the number of total grade points you have earned and the total credits you have attempted beginning with your first semester of attendance.

### Total Grade Points/Total Credits Attempted = Cumulative GPA

Please note: Instructors have autonomy in determining the grading scale they wish to use for their courses.

### MINIMUM GRADUATION INDEX.

Bachelor's Degree: 2.0. Associate Degree: 2.0.

## Scholastic Deficiency

A student will be placed on Scholastic Probation if either the semester or graduation index at the end of a regular semester falls below the levels in the following table for academic classification.

### Index Level for Probation

Classification	Sem. Index Less than	Graduation Index Less than
0 and 1	1.5	1.5
2	1.5	1.6
3	1.6	1.7
4	1.6	1.8
5	1.7	1.9
6 and up	1.7	2.0

If a student is already on scholastic probation, the student will be dropped from the university if, at the close of a semester, the graduation index falls below the level in the following table, or if the student receives failing (F) grades in six credit hours or more for the semester.

### Index Level for Dropping

Classification	Graduation Index Less than
0 and 1	1.3
2	1.4
3	1.5
4	1.6
5	1.7
6	1.8
7	1.9
8	2.0

Courses with grades of Incomplete (I, PI) are not included in semester index computations for honors and deficiencies. Completion grades for courses with prior Incompletes are included in the graduation index and will affect honors and scholastic deficiency. The above academic regulations apply only during a regular semester. Students cannot earn scholastic honors, be placed on scholastic probation, or be dropped from the university at the end of a summer session.

## Readmission Procedure

### For Students Who are Academically Dropped for Scholastic Deficiency

Students who are academically dropped from the Purdue University system may not register or attend classes in any capacity, either for credit or on an audit basis, unless they are readmitted by the Office of the Dean of Students. Students who are academically dropped are eligible for readmission only after they have completed at least one full regular semester (summer session does not count) of non-attendance. Students who have been academically dropped more than once are required to complete at least one calendar year of non-attendance.

**READMISSION FEE:** Students must pay a \$100 non-refundable readmission fee at the Enrollment Services Center - Student Accounts. Applications and procedures for readmission are available in the Office of the Dean of Students located in SUL (Student Union and Library Building), room 314.

For inquiries regarding the readmission process, please call the Office of the Dean of Students at (219) 989-4141; (toll-free from within northwest Indiana and Chicagoland area) at 1-800-HI PURDUE (1-800-447-8738).

## Graduation Requirements

### For the Bachelor's Degree

1. Completion of the plan of study for the degree, either by resident course work, examination, or credit accepted from another institution.

**Ten Year Rule.** The dean of the school which administers the student's major can refuse to accept for graduation credit any course completed 10 or more years ago. Re-entering students will be notified immediately of all such decisions.

**Substitution of Courses.** The dean of the school which administers the student's major may authorize substitutions for courses for graduation.

**Experiential Learning.** Experiential learning is a graduation requirement for students who started with Purdue University Calumet Fall 2008. This approach to teaching allows students to go beyond theory based learning and explore ways to gain practical knowledge within their program of study. Students will enroll in two experiential learning courses while completing their degree. Experiential learning is offered through undergraduate research, internships, service learning, cooperative education, cultural immersion/study aboard, design project or practicum. Your academic advisor will assist you in selecting an experience that is right for you.

### EXCEPTION:

Transfer students with no more than two semesters of enrollment remaining and no more than thirty-two credit hours needed for degree completion are

exempt from the experiential learning requirement. (*At the discretion of the Dean or Department Head*)

2. **Residency Rule.** At least two semesters of enrollment in and completion of at least 32 credit hours approved and required for the degree, at the 300 (Junior) level or above at Purdue University Calumet. Students are normally expected to complete the senior year in residence. Courses completed by examination will not apply to this rule.

*Exception.* With the prior approval of the dean of the school which administers the student's major, a student who has at least four semesters of resident study may complete not more than 20 semester hours of the senior year at another approved college or university.

For the purpose of this rule, two summer sessions are considered equivalent to one semester.

3. Graduation Index of 2.00.

*Exception.* A student who has completed all other requirements for the degree but does not have the minimum Graduation Index may meet the requirement by:

- a. Securing the approval of the dean of the school administering the major, after review of the academic record, permission to register for additional courses. Such a student will not be allowed to take more than 20 credit hours beyond those required for the degree **OR**
- b. Securing in advance the approval of the dean of the school administering the major to register at another approved college or university for not more than nine of the 20 hours.

Copies of approvals must be filed in the Office of the Registrar. Credit in these additional courses must be earned no later than five years after the date on which all degree requirements were met, except the Graduation Index requirement.

The Graduation Index requirement will be met for such a student if the Graduation Index, now including the extra courses, meets the Graduation Index requirement in effect at the time when the student met all the other graduation requirements.

4. Registration as a candidate for the degree during the semester or summer session immediately preceding the completion of the degree.
5. In order to document and strengthen the effectiveness of its programs, Purdue Calumet is engaging in a systematic assessment effort. The University expects its students to complete all assessment procedures related to General Education and/or major field as required.

### For the Associate Degree

1. Completion of the plan of study for the degree, either by resident course work, examination, or credit accepted from another institution.

**Ten Year Rule.** The dean of the school which administers the student's major can refuse to accept for graduation credit any course completed 10 or more years ago. Reentering students will be notified immediately of all such decisions.

**Substitution of Courses.** The dean of the school which administers the student's major may authorize substitutions for courses for graduation.

**Residency Rule.** At least two semesters of enrollment and completion of at least 32 credit hours at Purdue University Calumet. Students are normally expected to complete the entire second year in residence.

*Exception.* With the prior approval of the dean of the school which administers the student's major, the student who has at least three semesters of study in residence may complete no more than 16 credits at another approved college or university. For the purpose of this rule, two summer sessions are considered equivalent to one semester.

2. Graduation Index of 2.0

*Exception.* A student who has completed all other requirements for the degree but does not have the minimum Graduation Index may meet the requirement by securing the approval of the dean of the school administering the major to register for additional courses, after a review of the academic record. Such a student will not be allowed to take more than 10 credit hours beyond those required for the degree. Credit in these additional courses must be earned no later than three years after the date on which all degree requirements were met, except the Graduation Index requirement.

The Graduation Index requirement will be met for such a student if the Graduation Index, now including the extra courses, meets the Graduation Index requirement in effect at the time when the student met all the other graduation requirements.

3. Registration as a candidate for the degree during the semester or summer session immediately preceding the completion of the degree.
4. In order to document and strengthen the effectiveness of its programs, Purdue Calumet is engaging in a systematic assessment effort. The University expects its students to complete all assessment procedures related to General Education and/or major field as required.

## Academic Honors

### Dean's List

The Dean's List is Purdue University Calumet's way of recognizing undergraduate students for outstanding scholastic achievement. Each semester, the Dean's List honors undergraduate students who have at least 12 credit hours in the graduation index with a graduation index of at least 3.5, and have at least six credit hours in the semester index with a semester index of at least 3.0.

### Semester Honors

Semester Honors recognize undergraduate students who:

- have at least six credit hours in the semester index with a semester index of at least 3.5, and
- have at least a 2.0 graduation index.

Students whose names are placed on the Dean's List shall be entitled to the following special privileges during the semester following the designation of distinction:

1. may be assigned to more than 18 credit hours upon request;
2. with the instructor's permission, a full-time Dean's List student may audit one class without assessment or additional fee

It would be possible to earn both Dean's List and Semester Honors standing if the student has a really outstanding semester.

*Note: Pass/no-pass grades and credits do not count in hours totals for either category of honors.*

## Degrees Awarded

### Graduation with Distinction

1. A candidate for the baccalaureate degree with distinction must have a minimum of 65 hours of credit earned at Purdue University included in the computation of the graduation index. A candidate for an associate degree with distinction must have a minimum of 35 hours of credit earned at Purdue University included in the computation of the graduation index.
2. The minimum graduation index for graduation with distinction in each school shall be no less than the 90th percentile of the graduation indexes of the graduates in each school, for the spring semester, provided that the index is at least 3.30. The minimum graduation index so determined in the spring for each school shall be applied for graduation with distinction for the subsequent summer session and fall semester.
3. Of those graduates who qualify for distinction under these rules for the spring semester, the three-tenths of the baccalaureate graduates having the highest graduation indexes shall be designated as graduating with highest distinction, irrespective of the schools from which they graduate. The three-tenths of the spring associate degree graduates having the highest graduation indexes will be designated as graduating with highest distinction. The minimum graduation indexes so determined for graduation with highest distinction shall be applied for graduation with highest distinction for the subsequent summer session and fall semester.

### Commencement Schedule

Purdue University Calumet conducts two commencement ceremonies each year. The May commencement ceremony is for students who have completed all graduation requirements by the end of the Spring semester. The December commencement ceremony is for students who have completed all graduation requirements by the end of the Summer session and for students who will meet their requirements at the end of the Fall semester. For more information about the commencement schedule, please contact the Office of the Registrar.

## General Education

Purdue University Calumet strongly believes that it is in the best interest of its students to include a General Education component in all of its academic programs. The faculty, via their governing body, defines general education as, that part of the academic program which assists the student's development as a person and citizen and complements the student's professional education. The four goals of General Education at Purdue University Calumet are:

1. To develop and enhance basic academic skills
2. To provide important general knowledge
3. To develop the critical skills needed in assessing the ethical, aesthetic, and practical consequences of actions, and
4. To integrate these skills and areas of knowledge so as to promote life-long learning.

To achieve these goals, the faculty have adopted a set of ten basic general education requirements. These are:

1. English composition—6 credit hours. Three credits are required in composition and additional three credit hours are required in a writing intensive course.
2. Natural Science—3 credit hours from a natural science laboratory course in physics, biology, chemistry, geo-science, or an appropriate interdisciplinary natural science laboratory course.
3. Mathematics or Statistics—3 credit hours in a collegiate level mathematics or statistics course.
4. Humanities—3 credit hours chosen from the humanities (literature, history, philosophy, foreign languages, art, music, theater, or an appropriate interdisciplinary humanities course)
5. Social Sciences—3 credit hours chosen from the social sciences (anthropology, psychology, sociology, political science, economics, or an appropriate interdisciplinary course)
6. Speech Communication—3 credit hours in speech communication
7. Computer Utilization—3 credit hours departments have identified appropriate course(s) to enable their students to develop computer utilization skills relevant to their major.
8. Wellness Education—Recognizing the importance of wellness education, the University as part of the general education experience, shall offer students the resources and information necessary to facilitate wellness.
9. Technology—Recognizing the impact of technology on society, the University, as part of the general education experience, shall offer students the opportunity to develop an understanding of the interface between technology and society.
10. Freshman Experience Course—1 to 3 credit hours of all entering freshman and transfer student with less than 60 credit hours.

Each academic program has identified specific courses or experiences to meet the general education requirements. These are the minimum general education requirements at Purdue University Calumet. Most programs have additional general education requirements, specific to that degree.

A complete copy of the Purdue University Calumet General Education philosophy statement, goals and objectives is available in the Office of the Vice Chancellor for Academic Affairs. A list of specific departmental requirements is available in the appropriate Academic Department or School office or from one's academic advisor.

## Outcome Assessment

As part of its continuing effort to improve itself and its academic programs, Purdue University Calumet engages in a periodic outcomes assessment for the entire university, including all academic areas. In brief, the student outcomes assessment program states what students should be learning or achieving at Purdue University Calumet, and gathers data to determine whether students appear to be achieving these objectives. Faculty and staff use these data to make both academic and non-academic program improvements. The entire academic outcomes assessment program itself is continuously reviewed by the Academic Assessment Policy Advisory Committee which reports directly to the Chancellor of Purdue University Calumet.

The worth of this effort to Purdue University Calumet and its students is so great that the University has stated as a requirement for graduation that it expects its students to complete all appropriate assessment procedures related to general education and/or their major field.

# The International Programs Office

The International Programs Office (IPO) is committed to further diversifying the Purdue University Calumet campus and supporting global awareness. IPO works to provide students with opportunities to learn about the world through academic, cultural, and hands-on experiences. This includes sending PUC students to study abroad, welcoming international students into our classrooms and campus, and offering educational and entertaining cultural programs and activities.

## **In order to achieve its goals, IPO is comprised of four main units:**

- International Students and Scholars (ISS) advises international students on immigration matters in order to help them reach their academic and cross-cultural goals successfully. For more information about ISS, please visit <http://webs.purduecal.edu/iss/>
- International Programs promotes study abroad and exchange programs, provides peer mentoring for international students, organizes events and activities, and develops international partnerships. For more information, please visit: <http://webs.purduecal.edu/ipo/>
- The English Language Program (ELP) provides the language instruction students need to succeed in their university studies, and gives students access to native English speaking peer mentors, and field trips to local destinations. For more information, please visit: <http://webs.purduecal.edu/elp/>
- International Admissions reviews and processes international student applications, evaluates foreign credentials, and corresponds with prospective international students. For more information, please visit: <http://webs.purduecal.edu/fis/>

To reach IPO, International Programs Office, visit us in Classroom Office Building, room 176; call us at 219-989-2502; or visit our homepage: [www.purduecal.edu/intl](http://www.purduecal.edu/intl)

# Graduate Study

Director of Graduate Studies, Lawshe Hall, Room 238 219/989-2545

Office of Graduate Studies, Lawshe Hall Room 247 219/989-2257

Twelve academic departments and schools offer thirteen master's degrees as well as other programs of graduate study at Purdue University Calumet to meet the post-baccalaureate needs of the citizens of northwest Indiana and surrounding areas.

The programs are flexible to suit the needs of graduate students and their employers.

They provide development for industry, business and government professionals through focused courses and degrees designed for a wide variety of student ages, schedules, and career paths, including those leading to doctoral study.

## Programs

### School of Education

- Master of Science in Education with specializations in:
  - Educational Administration\*\*
  - Instructional Technology (School Based)
  - Instructional Design (Non-School Based)
  - Mental Health Counseling
  - School Counseling
  - Human Services
  - Special Education

\*\* the specialization in Educational Administration is available online in an accelerated format.

Also available at the graduate level in Education:

#### Licenses:

- School Administration
- Mental Health Counseling
- School Counseling
- Special Education (Mild Intervention and Intense Intervention)
- Special Education Director

#### Certificates:

- Addictions in Counseling
- Response to Intervention
- Instructional Technology
- Elementary and Secondary

### School of Engineering, Math and Science

- Master of Science in Biology  
combined BS/MS in Biological Sciences
- Master of Science in Computer Science
- Master of Science in Engineering with specializations in:
  - Mechanical Engineering
  - Electrical & Computer Engineering
- Master of Science in Mathematics

### School of Liberal Arts and Social Sciences

- Master of Arts in Communication
- Master of Arts in English
- Master of Arts in History
- Master of Science in Child Development and Family Studies  
with specializations in:
  - Marriage and Family Therapy
  - Human Development and Family Studies

### School of Management

- Master of Business Administration (MBA)
- Master of Accountancy

### School of Nursing

- Master of Science in Nursing

### School of Technology

- Master of Science in Technology

Students interested in graduate study should refer to the individual departmental listings of degree requirements elsewhere in this catalog. Correspondence about admission to the Graduate School and inquiries about a specific school's/department's requirements should be addressed to the head of the school/department to which the applicant seeks admission.

## Admission to the Graduate School

### Degree-Seeking Applicants

Applicants for specific graduate degrees must apply for graduate study via the online application located at <http://www.gradschool.purdue.edu/admissions/>

Applicants should apply preferably four months, but no later than one month, prior to the semester of desired admission.

All applications are first evaluated by a departmental committee at Purdue Calumet. If advanced for admission, the application is submitted to the Office of Graduate Studies for final processing and approval.

*General Admission Requirements:*

1. A bachelor's degree from an accredited college or university.
2. Graduation index of 3.0 (B) on a 4.0-point scale (individual departments and schools may set higher indexes).
3. Other requirements, as detailed by individual departments and schools, typically a goal statement or statement of purpose.
4. Academic ability for graduate work.

*Applicants must submit:*

1. A completed online application.
2. Three letters of recommendation.
3. Two official transcripts of all previous college and university course work completed.
4. A \$55.00 application fee payable online by credit card — details in online application.
5. Other documents as required by the individual department or school.
6. Other evidence of academic performance as required by the individual department or school.
7. Graduate Record Examination (GRE) if required by the particular department or school. Consult the individual department or school for additional information.
8. The Graduate Management Admission Test (GMAT) may be required by the School of Management. Consult the School of Management for additional information.
9. Further information can be found at the Graduate School's Web site at: <http://webs.purduecal.edu/gradschool/>

### When to apply

Applications, transcripts and supporting materials should be submitted to the department or school preferably four months, but not less than one month, before the beginning of the session for which the applicant seeks admission. Some programs may have specific deadlines for application. Please check with the department in which admission is sought for information on the specific deadline.

An applicant is not officially admitted until notification from the Graduate School. International students should check with the International Students Services office for application deadlines.

### Non-Degree Graduate Status (*Temporary Admission Status*)

Students who wish to pursue study beyond the bachelor's degree, but may not have specific degree objectives, may take graduate courses by submitting:

1. A completed temporary, non-degree online application located at <http://www.gradschool.purdue.edu/admissions/>  
There is no fee for submission of a non-degree application.
2. One copy of the bachelor's degree final transcript showing the date of degree completion.
3. *Note:* Temporary or non-degree students are not eligible for financial aid or Graduate Teaching Aide Positions.

## Twelve Credit Rule

No more than 12 hours of credit earned as a non-degree-seeking student (temporary) may be applied to a graduate degree. If an applicant for a regular degree program is approved during the semester in which the student is enrolled for the twelfth credit hour as a non-degree student, all credits completed prior to and during that semester are eligible for inclusion in the plan of study. However, the courses must be appropriate for the degree and be acceptable to the department or school. Students who fail to gain admission as degree-seeking students in a timely fashion may lose credit already earned.

## Grades Earned While In Non-Degree Graduate Status

No course in which a student receives less than a B may be included in a plan of study if the student completed the course while in non-degree status.

## Teaching License Registrants

Bachelor's degree holders seeking graduate credit without a degree objective, such as those working in teaching licensure programs or seeking to enhance professional qualifications in their occupations, may be admitted in non-degree graduate status. For further information about licensure, please see the School of Education's Graduate Study Web site at: <http://www.purduecal.edu/education/grad/licensing.html>

## Academic Regulations

**GRADES.** Success in graduate study requires performance of a high quality. Only grades of "A," "B," or "C" — while maintaining a "B" average — fulfill Graduate School requirements. An advisory committee or a department or school may require grades higher than C in certain courses. Pass-fail grades are not acceptable. Some graduate programs do not accept a grade of C in courses in the graduate plan of study. Please see your academic program for specific requirements on grades.

## Progress Toward Degree

Student progress is reviewed each semester by the individual school or department. If the student fails to perform satisfactorily in the judgment of the department or school, the student may be asked to discontinue graduate study at Purdue Calumet.

## English Requirement

Candidates whose native language is not English must prove proficiency in the English language by achieving one of the following:

- A TOEFL (test of English as a foreign language) score of 77 total score (including score minimums of Writing 18, Speaking 18, Listening 14, Reading 19). Note that in addition to required minimum scores for each category, the Graduate School also requires a minimum overall score that is higher than the minimums for the four area tests combined. Applicants must meet or exceed each of the five Scores for admission to the Graduate School.  
For further information, go to <http://www.toefl.org> Purdue University Calumet's code for TOEFL GMAT and other tests through Educational Service is 1638.
- A grade of at least a B in English at the ordinary level of G.C.E. (General Certificate of Education) or G.C.S.E. (General Certificate of Secondary Education).
- A scholastic aptitude test (SAT) verbal score of 480 or greater.
- Transferable credit from an accredited US institution of higher education equivalent to Purdue University Calumet's ENGL 104, English Composition course
- The Graduate School also accepts International English Language Testing System (IELTS) Scores with an overall band score of 6.5 or more. For more information, go to <http://www.ielts.org> The Graduate School also accepts the Pearson Test of English (PTE) with a score of 58.

**FOREIGN LANGUAGE REQUIREMENT.** There is no general foreign language requirement, though some schools and departments do require a reading knowledge of a foreign language as a relevant research tool.

## Registration

Students are urged to register during the early registration period to guarantee their course selections.

**REGISTRATION FOR RESEARCH CREDIT.** Graduate students who use university facilities or are supervised by a faculty member must register for research hours. Registration for research hours should reflect the nature and amount of the student's research activities accurately. Research includes literature reviews and thesis writing.

Registration in the student's last semester. A candidate for any advanced degree must be registered during the last semester or session before receiving the degree. Students in the last semester of a master's program with a thesis option must be registered for a minimum of three hours of research credit.

## Undergraduate and Transfer Credit

Course credits earned while an undergraduate at Purdue University or other accredited institution of higher learning may be applied toward an advanced degree if these credits are in excess of any requirements for the baccalaureate degree. Such credits must be certified as available for graduate credit by the institution from which the student received the baccalaureate degree, but will be accepted only if: (1) the student had senior standing and a 3.0 graduation index when taking the course, (2) the student received a grade of B or better, (3) the course was designated as a graduate course, and (4) the course was taken at the graduate level.

## Advisory Committees

Each candidate for the master's degree will have an appointed graduate committee consisting of three faculty members. This committee assists the student in preparing the plan of study and advises the student during graduate work. In the case of the thesis option, the committee also advises the student about research and writing the thesis. With the approval of the Departmental Director of Graduate Studies, the student will select a major professor, who must agree to the appointment. The major professor chairs the advisory committee and oversees the student's research. The major professor and student must agree upon the related areas in the plan of study.

## Plan of Study

The plan of study includes specific courses which the student is expected to complete and all other requirements for the master's degree; the student and the advisory committee for the department develop the plan of study together. The student is responsible for completing and submitting the plan of study to the Graduate School one semester prior to the semester in which he or she plan to graduate. The plan of study must be approved by the student's academic advisor before submission. If it becomes necessary to revise the plan of study, a Request for Change to the Plan of Study must be submitted with a justification. Plans of study are submitted electronically through the ePOS system. The electronic plan of study is available to graduate students through the myPUC portal.

## Admission to Candidacy

Admission to candidacy for the master's degree is granted only after approval of the formal plan of study. A candidate for any advanced degree must be registered during the semester in which the degree is awarded.

## Oral and Written Examinations

The requirements for oral and written examinations are established by the advisory committee or the school or department. A final examining committee for each candidate certifies to the Graduate School that the student has met the requirements of the major department or school.

## Graduation Deadlines

Graduating on time is very important to most students. Therefore, a student must be aware of the rules and the deadlines set forth by the university and the academic department. Many rules and deadlines that apply to our Graduate School can be found on the Purdue West Lafayette Web site at: <http://www.gradschool.purdue.edu/calendar/calendar.cfm?type=Deadlines>

For more information, visit the Office of the Graduate School's Web site at [www.purduecal.edu/gradschool/index.html](http://www.purduecal.edu/gradschool/index.html) or call (219) 989-2257.  
e-mail: [grad@purduecal.edu](mailto:grad@purduecal.edu)

# Resources, Services and Facilities

## MISSION STATEMENT

Student Affairs, a primary partner for holistic learning and development at Purdue University Calumet, is committed to assisting students as well as faculty, staff, parents and other family members. Comprised of individuals who care deeply about students, staff in Student Affairs stand ready to offer guidance and support.

- **GOAL 1** – Encourage the overall well-being of students.
- **GOAL 2** – Enhance the educational experience through participation in holistic activities
- **GOAL 3** – Inspire students to pursue lifelong learning.
- **GOAL 4** – Promote an inclusive community that values productive communication and diverse ideas and that demonstrate collaboration and cooperation

## STUDENTS WITH DISABILITIES

In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in courses are entitled to appropriate accommodations. It is the student's responsibility to have disability documentation on file in the Office of Student Support Services, meet with the Assistant Director, Disabled Student Development Services for an intake to determine their accommodations and inform the instructor of their classroom accommodations.

## Office of Disability Resources

**Student Union & Library Building, Room 341, (219) 989-2455;  
(219) 989-2454 Telecommunications Device for Deaf (TTY/Voice)**

The mission of the Office of Disability Resources is to provide reasonable accommodations to students with documented disabilities in an effective and efficient manner; assist students with disabilities in building self-advocacy skills; and to build collaborative partnerships with Purdue University Calumet faculty and staff, as well as, agencies which provide services to persons with disabilities within the surrounding communities.

In order for students to receive academic accommodations students must register with the Office of Disability Resources and provide documentation of their disability. Disability documentation must be current, state what the disability is, as well as, the functional limitations caused by the disability and/ or its treatment. Please contact the Office of Disability Resources for additional guidelines for disability documentation.

## Center for Student Achievement Academic Advising

**Lawshe Hall, Room 122, 219/989-2339**

Each academic department and school and the Center for Student Achievement offer academic advising for specific programs of study. Students consult their academic advisors for information on program requirements and career options in their majors. Every student is assigned an academic advisor and should meet with that advisor three times per year.

## Information Center

**Student Union & Library, Concourse, 219/989-2400**

- The Information Center is a starting place to gain general information about the university and the campus. The Information Center is staffed by knowledgeable people who can further direct students to more specific sources of campus information.
- The Information Center makes Peregrine van reservations (for students and staff).

## The Counseling Center

**Gyte Building, Room 5, 219/989-2366**

The Counseling Center offers a range of psychological and career counseling services to all students at Purdue University Calumet toward enhancing student academic and personal success and career satisfaction. Services are provided in individual, couples, or group formats and include assessment, brief counseling and psychotherapy, referral, consultation, and psychoeducational workshops. These services are provided by licensed mental health professionals and postgraduate counselors under their supervision. All psychological services are confidential as protected by law.

Personal issues such as adjustment to college/work, relationship concerns, anxiety, depression, alcohol and drug use, body image/eating problems are only some of the many concerns that may be addressed in brief psychotherapy. Medication evaluation with a prescribing psychologist in the Counseling Center and collaboration with the Student Health Services Center is also available. As needed, referrals to qualified professionals in the community are made available.

## Library

**Student Union & Library, Second Floor, 219/989-2224**

The Purdue University Calumet Library is designed to sustain the accessible, trusted, and indispensable learning environment that is fundamental to student academic achievement in college.

Its academic goals are to deliver high quality information, provide excellent guidance in its use, and promote learning in an attractive, technologically advanced, and personally comfortable environment.

The Library helps students learn strategies and skills for accessing information and using it effectively for their class work.

The Library Web site [www.purducal.edu/library/](http://www.purducal.edu/library/) is a link to scholarly information in electronic and print formats—books, journals, reference guides, and archives. Services for the user, including interlibrary loan, reference assistance and requests for purchase, are available 24-7 via links on the Library's Web site. Click on the quick link on the Purdue University Calumet home page for easy access to Library resources.

At the Library, students learn how to search a variety of information resources, including PULSE, the Web-based online catalog, to locate resources that the Library owns, search electronic databases to retrieve journal articles in full text, and organize and carry out research projects.

The Library faculty, staff, and student assistants are here to help students learn in today's complex information environment. The Library provides individual assistance to each student. The Reference Desk, located in the center of the Library, is the place for students to begin their research. Library instruction sessions, which include pre- and post-tests of student information literacy, are scheduled at the request of professors.

Open 95 hours per week, the Library is a haven for student learning. The Library learning environment includes such amenities as study rooms for group projects, an electronic classroom for hands-on learning, leisure seating for quiet conversation and a place to meet, and individual carrels for quiet study. A high-tech presentation practice room is available. The source for virtual and print documents about the university, Archives and Special Collections, was recently renovated to better accommodate scheduled classes and regular exhibitions. The ACCESS Center provides hardware and software to accommodate the needs of differently-abled students.

The Library's print collection includes 275,000 volumes and 503 current journal subscriptions. About 3,000 new volumes are added each year. The Library also subscribes to 4,100 electronic journals and 2,760 electronic books. New links to electronic resources are added weekly. The Library has nearly 800,000 microforms as well as a digital reproduction system that provides laser quality copies of microforms.

## Computer Education Building and Computing Facilities

Not only do students at Purdue Calumet learn with computers, they also learn about computers. Purdue University Calumet has state-of-the-art computer facilities and is especially rich in its computer hardware. The Purdue Calumet Library and Campus Lab Community, in coordination with the Computer Technology and Information Services Department (CTIS) provide computer labs for student use. The primary student computing labs are in the Powers Building first floor M-115 and the Gyte Building ground floor, and provides access to more than 130 computers. The learning areas offer students access to a variety of software applications, including word processing, spreadsheet, electronic mail, Web browsers to access the Internet, WebCT Blackboard, and management applications such as SPSS. This lab also is equipped with computing software to assist in registration, student electronic mail, and access to the Internet. Most of Purdue Calumet's Departmental open labs have the same base software, including the Library. Every student receives a computer network account to access these systems; Purdue Calumet offers one of the best campus computing environments for a university of its size. Several campus computer labs are open to students nearly 18 hours per day, 8 hours a day on weekends.

*Campus equipment includes:*

- The Power Lab and Gyte Learning Commons are available 109.5 hours per week during the semester and is open to all students
  - Monday through Thursday (7:30AM-2:00PM)
  - Friday & Saturday (Friday 7:30AM-8:00PM) (Saturday 8:00AM-8:00PM)
  - Sunday (1:00PM-12:00AM)
- PCs including MACs with an average CPU speed of 3 GHz.
- Local Area Networks (LAN) with 100Mbps to the desktop and 1Gbps uplinks between buildings connecting campus computing resources with 8 Mbps bandwidth access to the Internet.
- There is a wireless network access in 95% of all the campus' public spaces and 78 Open Air Computers placed in key student gathering areas for convenient desktop computing access.

## Career Services

**Student Union & Library, Room 349, 219/989-2419**

**careerservices@purduecal.edu**

**www.purduecal.edu/careerservices**

**Monday, Tuesday, Thursday, & Friday — 8AM to 4:30PM**

**Wednesday — 8AM to 7PM**

**Breaks and Summer Hours — M-F 8AM to 4:30PM**

Career Services is a one-stop shop for all your professional needs. Available to students, alumni, and the community, our services include resume and cover letter reviews, mock interviews, networking opportunities, job search assistance, career-related advice, and more. The office also maintains the University's web-based career management system, CareerTrax. CareerTrax is more than a job board, it also has a built-in resume maker, an online portfolio, applicant tracking, alumni mentoring, and the Career Insider (chats, samples, company data, and more). Whether you are looking for part-time, full-time, internships, co-ops, projects, volunteerism, or other employment opportunities, Career Services can help. A comprehensive career resource center is available in SUL 349 and online at [www.purduecal.edu/careerservices](http://www.purduecal.edu/careerservices). The center has directories of occupations and employers, career and job search books, free career materials, and a system that allows students to practice their interviewing skills. It's also an excellent place to visit if you are undecided about choosing a major.

### STUDENT EMPLOYMENT

The Student Employment Office is an integral part of Career Services. Our goal is to provide meaningful employment for students, correlating to their educational goals and connecting them to campus. Some of the benefits of student employment include a steady paycheck, flexible schedules, on-campus or nearby locations, and an opportunity to develop real world skills.

Not only does Student Employment coordinate Federal Work Study and Non-

Federal Work Study positions, but also temporary, project, and Graduate Aide positions. Please feel free to contact Student Employment for further assistance with on-campus employment issues, (219) 989-2600.

### LEADERSHIP DEVELOPMENT

The Inspired Leaders Series is a set of leadership workshops where students can earn a leadership certification by attending various workshops throughout the year. You can earn a Silver Member Award and specialize in different areas such as: Leadership, Teamwork, Communication, Personal and Professional Development, and Job Search Skills. Get a jump on your future and plan for success by attending these workshops. Visit our Web site for a full listing of the workshop schedule and to sign up online to attend.

## New Student Orientation

**Student Union Library, Room 104B, 219/989-2358**

**orientation@purduecal.edu**

**<http://webs.calumet.purdue.edu/newstudent/>**

**Hours: Monday through Friday 8:00 a.m. - 5:00 p.m.**

**One day per week office is open until 6:30 p.m.**

**For Summer Break Hours call (219) 989-2358**

A student's journey begins with New Student Orientation. This one day interactive event is designed for students to learn how to navigate college life and succeed at Purdue University Calumet (PUC).

New Student Orientation provides an opportunity to discover valuable resources, attend workshops and an academic overview, take a campus tour, enjoy lunch with other PUC students, and register for classes. Parents and family members too will learn valuable information regarding their student's journey at PUC.

In addition, New Student Orientation sponsors events throughout the academic year to connect new students to the University and the campus community.

## Campus Life – Student Activities

**Student Union Library, Room 104B, 219/989-2369**

Student Activities offers a wide variety of programs and services that facilitate student involvement and enhance the educational experience with opportunities to learn, grow, and get connected to Purdue University Calumet. Student Activities offers quality programs and resources that educate beyond the classroom in such areas as leadership, cultural awareness and diversity, social engagement, and community service which assists students in the development of skills they can use long after college. Student Activities works closely with the campus' 50-plus student organizations, including the Student Government Association, social and professional organizations, and the campus newspaper, The Chronicle. In addition to assisting these groups, Student Activities coordinates special events and programs, such as Dances, the Student Activities Awards Banquet, Super Bowl Party, Pancake and Ice Cream Study Breaks, Meal with Your Mentor. Stay in touch with what's going on around campus by visiting: <http://webs.purduecal.edu/studentactivities/>.

Student Activities also encourages students to get a Co-curricular Transcript ("CCT"), an official University document that will help them get the competitive edge for securing employment, internship opportunities, graduate school admission and scholarships. A CCT is a document that complements students' academic transcript by verifying their co-curricular involvement. It will be a valuable asset for students when trying to get ahead.

A CCT lists students' co-curricular experiences (those activities that took place outside the classroom) in which students have been involved while being enrolled at Purdue University Calumet. This could include honors and awards, Student Government and organizations, athletics and intramurals, educational workshops/conferences, and community and campus service. Forms and additional information are available online at <http://www.purduecal.edu/cct>

## Health, Recreation and Sports

### Fitness & Recreation Center, Room 141

**Athletics: 219/989-2540; Fitness Center: 219/989-2175;**

**Wellness Office: 219/989-2709; Recreation: 219/989-2550; and**

**Intramurals: 219/989-2095**

The Fitness and Recreation Center is the base for a broad range of intramural and athletic activities. Open recreation for students, faculty and staff is available seven days of the week with the purchase of a Fitness Center membership. Intercollegiate athletics include men's and women's basketball, men's and women's cross country, men's golf, men's and women's tennis and women's volleyball through the National Association of Intercollegiate Athletics. A wide range of intramural sports are available for students and non-students alike. Club sports are also offered.

The Fitness Center is a comprehensive, multi-dimensional, physical fitness training facility designed to service Purdue University Calumet students, faculty, staff, and people from surrounding communities. The Center features state-of-the-art equipment, convenient hours and a professional staff of exercise physiologists. Fitness Center members also may participate in specialty exercise programs such as Yoga, Pilates and Tai Chi. Purdue Calumet undergraduate students may use the Center by paying a facility user fee each semester. Purdue University Calumet graduate students must pay an activity fee along with a facility user fee. Non-students are subject to different membership fees.

Wellness programs and services are available to Purdue University Calumet students and employees. The wellness staff provides health screenings, educational programs, and other health-related activities to assist students and employees in making health-conscious decisions about lifestyle behaviors that affect their health and well-being.

## Educational Opportunity Programs

### Student Union & Library, Room 335, 219/989-2779

The history of educational opportunity and access at Purdue University Calumet begins with the funding of the Upward Bound Program in 1966. The Purdue Calumet Upward Bound was one of the first in the country. Today, students from Northwest Indiana are able to enter the TRIO educational pipeline in sixth (6) grade through graduate school. The following describes the mission, target population and impact of TRIO programs.

#### UPWARD BOUND

### Student Union & Library, Room 339, 219/989-2392

Upward Bound helps prepare students to bridge the gap between high school and college. A pre-college preparatory program, Upward Bound provides academic support, cultural enrichment, and personal/career counseling to increase the academic skills and motivational levels of participants.

Students are identified and selected for Upward Bound during their freshman year in high school. The program includes four phases:

**First Summer.** Students spend four weeks at the Purdue University Calumet campus. Curriculum includes exploration in academic and career areas.

**Second Summer.** Students spend seven weeks on the Purdue West Lafayette campus enrolled in both academic and elective courses.

**Third Summer.** Students attend an eight-week session on the Purdue University Calumet campus enrolled in six hours of college credit courses and career planning sessions.

**Fourth Summer (optional).** Program graduate may attend an eight-week class session at either the Calumet or West Lafayette campus. Some conditions apply.

During the academic year, students are enrolled in academic enrichment courses and other activities each Saturday at Purdue Calumet.

#### EDUCATIONAL TALENT SEARCH

### Student Union & Library, Room 313, 219/989-2460

Educational Talent Search, funded by the U.S. Department of Education, is a federally funded TRIO program, which assists in providing postsecondary educational opportunities to underrepresented middle and high school students at targeted schools in the greater Calumet Region.

By extending encouragement to prospective college students and providing counseling and information, participants realize their potential for success. Our

program is designed to identify persons from disadvantaged backgrounds and/or first generation students (neither parent has a bachelor's degree). Our efforts are coordinated with teachers, school counselors, parents, various community agencies, and other existing support systems. We provide college admissions, financial aid, SAT preparation, academic monitoring, and career exploration.

This program consists of three components: initiative (6th, 7th, and 8th grades), high school (9th through 12th grades), and (adult) non-traditional students.

### RONALD E. MCNAIR POST-BACCALAUREATE ACHIEVEMENT PROGRAM Student Union & Library, Room 335, 219/989-2779

The Ronald E. McNair Post-Baccalaureate Achievement Program, a federally funded TRIO program, provides services and activities that encourage and prepare undergraduate students who are first generation college and low-income and who are from populations underrepresented in areas of graduate education for graduate study. These services include, but are not limited to tutoring, graduate school visitations, research opportunities, and seminars and workshops that increase the likelihood of being admitted to and successfully completing graduate study.

#### STUDENT SUPPORT SERVICES

### Student Union & Library, Room 343, 219/989-2727

**TTY: 219/989-2454; 21st Century Scholars: 219/989-2737**

Student Support Services is a federally funded TRIO program that welcomes low-income and first generation college students (neither parent has a bachelor's degree) and students with documented disabilities. Services include: academic pre-advising, career counseling, individualized tutorial services, assistance completing financial aid forms, etc... and appropriate services for students with documented disabilities. Students who participate in the 21st Century Scholar's Program may also be eligible to receive these services.

## Office of Veterans' Affairs

### Lawshe Hall, Room 130, 219/989-2334

The Office of Veterans' Affairs is responsible for coordination of all university services which impact veterans on campus. The office ensures prompt delivery of veterans' educational entitlements to all eligible students. The office provides many services to Veterans including information about the university, admission referrals, certification and details about applying for VA Educational Benefits, assistance with registration procedures, special assistance for disabled Veterans, and referrals to other agencies.

## The Student Research Office

### Lawshe Hall, Room 238, 219/989-2925

The Student Research Office at Purdue University Calumet exists to help students participate in research and scholarly activities, in collaboration with Purdue Calumet faculty. A student and his or her faculty sponsor work together on a project of mutual interest. The research can be performed in many disciplines on campus. The mentoring relationship developed through the research and scholarly process is beneficial to the student and to the faculty member. Students have the opportunity to participate in a research project from beginning to end, to go beyond classroom experience and to investigate an idea in great depth. Faculty have the enjoyment of being able to move beyond classroom examples with students who are actively engaged in the discovery process.

There are several different programs coordinated by the Student Research Office, including the Undergraduate Research Grant Program (URGP) which funds expenses for a research project, the Student-Faculty Research Collaboration Award (S-FRCA) which funds travel for students when they accompany a faculty member to present their research work results or perform research off-campus, the Student Research Award (SRA) which gives awards to the top research projects done by students at Purdue Calumet and the Louis Stokes Alliance for Minority Participation (LSAMP) an NSF sponsored program which supplies a stipend to undergraduate students, with an emphasis on under-represented students, to do research in the fields of science, technology, engineering and mathematics for a spring or summer semester. The Student Research Office also hosts the annual Purdue University Calumet Student Research Day.

## Office of the Vice Chancellor for Student Affairs

Lawshe Hall, Room 352, 219/989-2367

The Office of Vice Chancellor for Student Affairs (VCSA) is responsible for coordinating services which are designed to provide a campus environment in which students are able to develop intellectually and personally. Student Affairs includes the following offices: Campus Life & Dean of Students; Career Services; Counseling Center; Educational Talent Search; From Boots to Books Program; Health, Recreation & Sports; Housing & Residential Education; McNair Post-Baccalaureate Achievement Program; Office of Disability Resources; Student Health Center; Student Employment; and Upward Bound.

In addition to management responsibilities, the Vice Chancellor for Student Affairs has oversight responsibilities for the Americans With Disabilities Act Compliance.

The VCSA division of the university views the student as a total being, in that the student's needs often transcend the formal classroom. The Student Affairs staff as a group of educators are committed to a team approach to meeting the varied needs of students. The overriding objective is to remove any barrier which would stand between the student and the student's realization of a successful university experience.

## Office of the Dean of Students

Student Union and Library Building, Room 313

The Office of the Dean of Students promotes responsibility, accepting consequences of behavior and encourages honesty, integrity, and respect among Purdue University Calumet students through education, compliance with behavioral standards, and support of individual rights.

The Office of the Dean of Students also serves as the Student Liaison Office at Purdue University Calumet. Our aim is to provide answers to your questions, appropriate referrals as needed, and helpful support and problem-solving assistance. We are your advocate and are eager to help you be successful.

Applications and procedures for readmission of students who have been academically dropped from the University are available online at [www.purduecal.edu/deanofstudents](http://www.purduecal.edu/deanofstudents).

## Charlotte R. Riley Child Center

219/989-2343

The Charlotte R. Riley child center operates as a lab school through the Department of Behavioral Sciences. The child center provides high quality child care services, preschool and kindergarten education programs to children of students, staff, faculty, and to the community. The center is NAEYC accredited and meets all state licensing rules and Paths To Quality (PTQ) requirements for children ages 3-6. The center is open all year excluding university holidays and two weeks prior to the fall semester. Children who are at least three years old and toilet trained through kindergarten age can stay for blocks of time or all day at a reasonable cost. Children entering kindergarten must meet the State of Indiana age requirements. Unscheduled care for enrolled children is available on a limited basis. All childcare requires advanced enrollment.

## University Police

University Police Building, 219/989-2911 - Emergency;  
219/989-2220 - Business

Business Lobby Hours — 7AM to 11PM

Police Department Hours — 24/7

The University Police Department conducts motorized patrols, foot and bike patrols throughout the campus and responds to all calls for service. The department is equally responsible for traffic and parking enforcement and investigating all suspicious or criminal activity, motor vehicle accidents, and medical emergencies. Motorists in need of assistance may call the police department for assistance. Escorts on campus are handled on request. University Police also oversees the university key operations, access control, staff ID's and transportation services.

## Center for Student Achievement

Lawshe Hall, Room 122, 219/989-2339

The Center for Student Achievement is a multi-component division consisting of Academic Advising and Academic Recovery.

### ACADEMIC ADVISING

Lawshe Hall, Room 122, 219/989-2339

The Center advises students who have not declared a major, adult learners admitted as non-degree students, those not directly admitted into the School of Nursing and School of Education, and students who have academic deficiencies that prevent direct admission to a major. The center also offers additional academic or skill preparation prior to entering an academic major, assisting students in maintaining satisfactory academic progress, course selection appropriate to intended major selection of major consistent with career goals placement testing, tutoring, and Supplemental Instruction (SI).

### ACADEMIC RESOURCE CENTER

#### Supplemental Instruction and Tutoring Services

Gyte Building, Room 102, 219/989-3227

The Center offers Supplemental Instruction (SI) in selected courses. Students may opt to take advantage of this service. Additionally, the Center has an academic drop-in tutoring service for all Purdue Calumet students who need assistance. Tutoring sessions are offered in math, sciences, foreign languages, English, management, technology, engineering and other areas. Assistance is provided by qualified student tutors. Students or community members may also contact the Center for private tutoring services. The Center also administers national testing for the SAT, ACT, CLEP and TOEFL tests.

### TESTING CENTER

Gyte Building, Room 237, 219/989-2504

The Testing Center is responsible for issuing and proctoring placement tests in English, math, and foreign languages. Photo identification is required for all placement tests.

## The Gerontology Center

Porter Hall, Room 203C, 219/989-2863.

The Gerontology Center provides a University focus for education, research and service regarding older people. Its services include consultation with students who may work in gerontology-related fields or who are planning a course of study in social gerontology. The Center also functions as a link from the University to the Northwest Indiana region by providing a variety of conferences, workshops, and referral information on issues of aging.

For further information, please contact the Gerontology Center at 219/989-2863.

*Anne Edwards, Director*

*Ralph Cherry, Associate Director*

## Entrepreneurship Center

The Entrepreneurship Center is committed to the economic development of the region through the success and growth of business-owners. The E-Center regularly offers a range of programs for practicing and aspiring entrepreneurs, in addition to periodic seminars, workshops, Newsletters, etc.

### Non-Academic Programs:

- "BUSINESS-OWNERS ASSOCIATION"  
—Currently with 400+ members  
—Provides sustaining educational, business and networking opportunities.
- "BUSINESS-OWNERS FORUM"  
—For Second-Stage businesses  
—To provide an enabling environment for larger businesses to collectively set the pace for economic growth in the region through peer-to-peer counseling.

- “SOUNDING BOARD” — Business-Owners volunteer their expertise to provide assistance to others; public service to stimulate economic development in the region
- “E-PROGRAM” for Experienced Full-Time Business-Owners — To enhance their abilities to compete more effectively
- “ASPIRING ENTREPRENEUR PROGRAM” (AEP) — For Aspiring Entrepreneurs — To assist in properly and systematically identifying opportunities for self-employment and business start-up.
- “E-SPEAKERS” — Business-Owners who speak to university & high school students and share experiences and wisdom.

#### Academic Programs:

- Undergraduate Courses in Entrepreneurship, ENTR-100, ENTR-300, etc.
- “SMALL BUSINESS INSTITUTE” (SBI) — offering free student-based consulting services for owners of small businesses.
- BA-391 “BUSINESS INTERNSHIP” — Matches students’ skills and career goals to the needs of business owners; project-based internship opportunities
- BA (Business), with Minor in Entrepreneurship

*For further information, please contact the*

Entrepreneurship Center, at 219/989-2100;  
877/974-2100 (toll-free) FAX: 219/989-2101  
e-mail: e-center@purduecal.edu  
www.purduecal.edu/ecenter

*Prof. Dushan Nikolovski, Managing Director, E-Center*

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## Student Health Services Center

### Gyte Annex, Room 34, 219/989-1235

The Student Health Services Center (SHSC) at Purdue Calumet offers students primary care and prevention services. The services include but are not limited to acute and chronic care for non-emergent conditions such as pharyngitis, bronchitis, allergic rhinitis, asthma, hypertension, and diabetes. Services include general physicals, gynecological exams, laboratory analysis, minor surgical procedures and health screenings. Laboratory services will include testing by an outside lab as well as some analysis onsite such as strep screens, pregnancy testing, and urinalysis. In addition students will be provided referrals to health care professionals in our area for further evaluation and treatment as needed. The SHSC, with students consent, works closely with the Student Counseling Center to provide some psychotropic medications. Initial office visits are \$20.00 and include the exam and some tests. Follow up visits for acute as well as some chronic diagnoses are performed without charge. Students are responsible for some laboratory charges not covered by the clinic..

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## Visit Us On The World Wide Web

Our Purdue University Calumet Web site is located at  
**[www.purduecal.edu](http://www.purduecal.edu)**



*School of*  
EDUCATION

# School of EDUCATION

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Alice G. Anderson, Dean  
[www.purduecal.edu/education](http://www.purduecal.edu/education)

## School of Education

219/989-2335, 800/HI-PURDUE, ext. 2335, Gyte Annex, Room 170C

## Department of Teacher Preparation (Undergraduate programs)

219/989-2360, 800/HI-PURDUE, ext. 2360, Gyte Annex, Rooms 151 & 153

## Department of Graduate Studies in Education

219/989-2326, 800/HI-PURDUE, ext. 2326, Gyte Annex, Room 122

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## Bachelor's Degree Programs

- Elementary/Special Education (Gr. K-6)
- Secondary Education (Gr. 5-12);
- Majors in life science, chemistry, economics, English, French, government, historical perspectives, mathematics, physical science, physics, psychology, sociology and Spanish.

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## Master's Degree Programs

- Educational Administration
- Counseling and Development (Mental Health Counseling, School Counseling, and Human Services)
- Instructional Technology
- Special Education

In addition, Purdue Calumet offers licensure programs in educational administration, school counseling and special education (mild and intense intervention).

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## Career Opportunities

Graduates of Purdue Calumet's School of Education may work as an elementary school teacher, high school biology teacher, kindergarten teacher, junior high math teacher, reading teacher, middle school social studies teacher, special education teacher, middle school language arts teacher, high school chemistry teacher, mental health counselor, addictions counselor, and more. Master's graduates may work as a school principal, school guidance counselor, mental health counselor, administrator or advance their classroom career.

# Department of Teacher Preparation

**Robert Rivers, Interim Department Head.** *Faculty:* H. R. Adesiyon (Emeritus); R. D. Bechtel (Emeritus); L. T. Brandon; J. E. Davis (Emeritus); D. J. Delph (Emeritus); S. E. Gorski (Emeritus); R. C. Hayes (Emeritus); E. Hixon; D. E. Johnson (Emeritus); M. Letcher; R. H. Rivers; R. L. Roames (Emeritus); C. Robinson; G. F. Schultz; B. Turgeon; G. Velez-Rendon; M. W. Weinhold; L. W. Zimmerman

C. Meus, *Field Experience Coordinator*

M. Ellis, *Professional Advisor*

The Department of Teacher Preparation, in collaboration with other professional educators and agencies, prepares and supports education professionals and related specialists who:

- apply the appropriate knowledge, skills, and attitudes in developing diverse approaches to educational strategies that are constructive, consistent, and reflective of sound practice.
- are prepared to use current information and technology to empower the people they serve; and
- are sensitive and responsive to the unique needs of themselves, of others, and of the diverse society in which they practice;
- are advocates and models of quality education and lifelong learning;

The Education faculty is committed to providing the human and technological resources necessary to enable students to construct knowledge, develop practices, and foster relationships.

## Mission Statement

The mission of Purdue University Calumet's School of Education, in collaboration with other professional educators and agencies, is to prepare and support education professionals and related specialists who:

- Apply the appropriate knowledges, dispositions, and performances in developing diverse approaches to educational strategies that are constructive, consistent and reflective of sound practice;
- Are prepared to use current research, knowledge, and technology to empower the people they serve;
- Are sensitive and responsive to the unique needs of themselves, of others, and of the diverse society in which they practice;
- Are advocates for and models of quality education and lifelong learning.

The School faculty is committed to providing the human and technological resources to enable students and themselves to develop as educational professionals in **constructing knowledge, developing practice, and fostering relationships.**

**"Constructing knowledge"** refers to the process by which individuals make meaning of professional information and develop personal theories about teaching, learning, and human development. Individuals construct knowledge through structured educational activities and life experiences.

**"Developing practice"** refers both to the process by which education professionals improve how they do their jobs as well as to the process of developing and growing as reflective practitioners.

## INTASC Standards

The Department of Teacher Preparation at Purdue Calumet has adopted the standards created by the Interstate New Teacher Assessment and Support Consortium (INTASC) to assess our program and ensure that students leave our program with the knowledge, attitudes, and skills to be successful educators. The INTASC standards were "drafted by representatives of the teaching profession along with personnel from 17 state education agencies. . . [and] represent a common core of teaching knowledge and skills which will help all students acquire 21st century knowledge and skills" (INTASC, 1992, p. 3). Additionally, the INTASC standards are adopted and embraced by The Indiana Professional Standards Board.

For each of the ten INTASC standards (see below), specific knowledge, dispositions and performances have been defined. Complete documentation of the standards can be found online at <http://www.ccsso.org/content/pdfs/corestrd.pdf>. In addition, the INTASC standards have been aligned with the School's conceptual framework, "Constructing Knowledge, Developing Practice, Fostering Relationships."

## INTASC STANDARDS

1. **Content:** The teacher understands the central concepts, tools of inquiry, and structures of the discipline he or she teaches and can create learning experiences that make these aspects of subject matter meaningful for students.
2. **Learning and Human Development:** The teacher understands how children learn and develop, and can provide learning opportunities that support a child's intellectual, social, and personal development.
3. **Diverse Learners:** The teacher understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.
4. **Multiple Strategies:** The teacher understands and uses a variety of instructional strategies to encourage student development of critical thinking, problem solving, and performance skills.
5. **Motivation and Management:** The teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
6. **Communication:** The teacher uses knowledge of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom
7. **Planning:** The teacher plans instruction based upon knowledge of subject matter, students, the community, and curriculum goals.
8. **Assessment:** The teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner.
9. **Reflection:** The teacher is a reflective practitioner who continually evaluates the effects of his or her choices and actions on others (students, parents, and other professionals in the learning community) and who actively seeks out opportunities to grow professionally.
10. **Community:** The teacher fosters relationships with school colleagues, parents, and agencies in the larger community to support students' learning and well-being.

The **Teacher Education** programs include a general education component, a major in elementary education or teaching subject areas and electives. The professional education courses begin with exploratory activities in the freshman year and culminate with a full-time supervised teaching experience.

The Department of Teacher Preparation Office and Graduate Studies in Education Office serve undergraduates and graduates during and after their attendance at Purdue Calumet, supervising admission of undergraduates to Teacher Education and arranging field experiences, including student teaching. It also facilitates the process for students. The Educational Media Center, located in Gyte, Room 143, the Literacy Resource Center in Gyte Annex, Room 127, and the Science Laboratory in the Fitness & Recreation Bldg., Room 122 all support the school's programs. The Teacher Education Resource Center in the Purdue Calumet Library contains print and non-print materials used by faculty, graduate and undergraduate students.

## Undergraduate Studies in Education

The School of Education offers a variety of undergraduate and licensure programs through its Department of Teacher Preparation Office located in the Gyte Annex, Room 151 and 153, (219) 989-2360.

The following is a list of undergraduate degrees and licensing programs at the undergraduate level. **Please be advised that programs are subject to change. It is the student's responsibility to work with the appropriate advisor to keep updated on any new requirements or changes.**

- Bachelor of Arts, Elementary Education and Special Education (Gr. K-6);
- Bachelor of Arts or Bachelor of Science, Secondary Education (Gr. 5-12);  
Majors in biology, chemistry, English,
- French, mathematics, physical science, physics, Spanish and social studies teaching with intense areas in economics, government, historical perspectives, psychology, sociology.

*Note: The courses that are taken at Purdue University Calumet are created specifically to meet Indiana teacher education standards. For that reason, they are subject to change should licensing requirements change. To be licensed to teach in another state, you must contact the state Department of Education for their requirements. See their website for information.*

### Introductory course work:

#### GATE 1:

- EDPS 22000 Psychology of Learning;
- EDFA 20000 History and Philosophy of Education;
- EDPS 26000 Introduction to Special Education;

#### Gate 2: Admission to Advanced Pre-methods courses

To be eligible to register for Gate 2 courses, candidates must provide documentation of passing praxis I scores, have achieved a portfolio score of 1.5, have earned a 3.0 GPA, and demonstrated acceptable dispositions.

### Admission, Retention and Licensure Standards for all Teacher Education Programs

#### Gate 3: Admission to Methods Courses

A candidate seeking teacher licensure through Purdue University Calumet, including student teaching, must be admitted to Methods courses by meeting the following minimum standards:

1. Be enrolled at Purdue University Calumet in good standing.
2. Have completed Introductory courses and be registered for remaining courses in the following sequence:
  - EDFA 20000 — History and Philosophy of Education
  - EDPS 22000 — Educational Psychology (3)
  - EDCI 35500 — Teaching and Learning in the K-12 Classroom
  - EDPS 26000 — Introduction to Special Education
  - EDPS 27000 — Characteristics of Individuals with Mild Disabilities
  - EDCI 31100 — Media for Children
  - EDCI 36600 — Use of Assessment in the K-12 Classroom
3. Minimum grade index of 3.0 GPA with no grade lower than a C in Education Courses
4. Minimum grade index of 3.0 GPA with no grade lower than a B in English composition courses.
5. For elementary majors, minimum grade of B and C in two of the required math courses. One of the courses MUST be MA 13700, and the other may be either MA 13800 or MA 13900. The remaining mathematics class must be completed with a C or better within a year of admission and prior to taking EDCI 31500. Students who earn grades of D, F, or W in MA 13700, must successfully complete MA 02100 before attempting MA 13700 a second time.
6. 3.0 graduation index with no Ds or Fs.
7. Licensure scores on all three sections of Praxis I: (Pre-Professional Skills Test (PPST); Passing Scores (written/electronic): Reading (176/323), Math (175/320), Writing (172/318) or a combined score of 527 or SAT 1100 or ACT 24 prior to registration in GATE 2 courses: EDCI 35500, EDPS 27000, and EDCI 31100 (elementary education), EDCI 36600.

8. After completing a first education course, have withdrawn from or repeated no more than two courses.
9. Acceptable electronic portfolio.
10. No more than two Education courses with a grade of C.
11. Must be coded in the elementary or secondary education major.
12. Must display appropriate dispositions.
13. Application for admission must be submitted to the Department of Teacher Preparation Office (Gyde Annex, Room 151) on or before February 1st for spring semester admission and September 1st for fall semester admission.

### Retention Standards for the Teacher Education Program

Admission to methods courses does not insure retention in the program or approval for the professional semester. Each candidate's progress will be reviewed by the advisor semester by semester. To be retained in the methods courses, the candidate must meet the following requirements:

1. Be enrolled at Purdue University Calumet in good standing.
2. Maintained a minimum grade index of 3.0 with no grade lower than a C in Education courses.
3. Maintained a 3.0 graduation index with no Ds or Fs.
4. Completed no more than two Education courses with a grade of C.
5. After completing a first education course, have withdrawn from or repeated no more than two courses.
6. Demonstrated acceptable dispositions.

If a candidate is found to be in violation of any retention standard, the candidate will be placed on probation for the Teacher Education Program. The candidate will be notified by the academic advisor of this status and will not be allowed to proceed further in the Teacher Education Program until any deficiency is eliminated. The candidate will have one year to remove the deficiency. If after one year the deficiency is not resolved, the candidate will be removed from the Teacher Education Program.

#### Gate 4: Admission to the Professional Semester (Student Teaching)

If a candidate is found to be in violation of any retention standard, the candidate will be placed on probation for the Teacher Education Program. The candidate will be notified by the academic advisor of this status and will not be allowed to proceed further in the Teacher Education Program until any deficiency is eliminated. The candidate will have one year to remove the deficiency. If after one year the deficiency is not resolved, the candidate will be removed from the Teacher Education Program.

1. Enrolled at Purdue University Calumet in good standing.
2. Maintained a minimum grade index of 3.0 with no grade lower than a C in Education courses.
3. Maintained a 3.0 graduation index.
4. Maintained appropriate graduation index in secondary content.
5. Completed no more than two Education courses with a grade of C.
6. After completing a first education course, have withdrawn from or repeated no more than two courses.
7. Submitted an updated Expanded Criminal History Report.
8. Have taken required Praxis II exams
9. Have completed portfolio requirement.
10. Have displayed appropriate dispositions.

### Appeal Process for Admission and Retention Standards

A candidate may choose to appeal a denial to methods courses or the Professional semester if they have special circumstances that they feel have prevented them from completing all the requirements for admission. All appeals for admission to methods courses and the Professional Semester must be sent to the Teacher Preparation Appeals Committee. The Appeals Committee is made up of three faculty/staff from the School of Education. Each member will serve on the committee for one academic year. The following steps must be taken in order to submit information to the Appeals Committee:

1. Complete a request form for the Appeals Committee. This form may be obtained from the Department of Teacher Preparation Office (Gyde Annex, Room 151).

2. Submit the appeal to the Department of Teacher Preparation Office (Gyde Annex, Room 151) by February 15th for spring semester appeals and September 15th for fall semester appeals.
3. The Appeals Committee will meet as needed to consider appeal requests. The advisor will notify the candidate of the committee's decision or by the date indicated on the denial letter.

## Licensure Standards

### Gate 5: Licensure

Candidates will be recommended for a standard teaching license in Indiana and in other states where the recommendation is accepted when they have met the following standards:

1. Completed a program of Elementary or Secondary Education.
2. Earned a bachelor's degree.
3. Maintained a minimum grade index of 3.0 GPA and no grade lower than a C in Education courses.
4. Achieved a 3.0 graduation index.
5. Achieved passing scores on the Praxis II: Specialty Area Tests and any other tests as required by the Indiana Professional Standards Board or the Department of Teacher Preparation.

*Note: Any education major re-entering the program who was not registered in a course for two or more years must meet the admission, retention, and licensure standards in effect at the time of re-entry. The Advisor, in consultation with the Licensing Advisor, has the authority to make decisions in areas where the adopted standards of admission, retention, and licensure do not adequately address individual situations. The policy reflects the minimum requirements for Teacher Education. The individual departments have the option of establishing higher requirements, if desired.*

Coursework taken at Purdue University Calumet meets Indiana licensure requirements only. Candidates seeking licensure in other states are responsible for checking with that state for requirements.

Approved: . . . . . 4/29/92                      Revised: . . . . . 1/1/04  
 TP approved: . . . . . 3/26/01                      SOE revision 3/30/01  
 DTP approved: . . . . . 2005  
 DTP Assessment approved: . . . May 12, 2006

*\*Revised standards apply to candidates beginning the Teacher Education Program Spring, 2007.  
 The Licensing Advisor has the authority to make decisions in areas where the adopted standards of admission, retention and licensure do not adequately address the individual's situations.  
 \*Excepting secondary mathematics and science majors.*

#### Note:

1. Students must file an application for student teaching one year in advance of student teaching. Students must check with the Department of Teacher Preparation Office (Gyde Annex, Room 151) for specific dates. Applications for student teaching will be accepted only from students who have been admitted to the Teacher Education Program.
2. Any Education student re-entering the program after for a lapse of two or more years must meet the then-current admission and retention standards.

*State licensure standards are in the process of being reassessed. As changes are approved, the Teacher Education Programs will be altered to meet new requirements. The changes will be required of students based on changes in licensure requirements. Students must meet regularly with teacher education advisors in order to make appropriate changes to plans of study.*

## Purdue University Calumet Title II HEA Report Card

Founded in 1946, Purdue University Calumet is a comprehensive regional university dedicated to serving the professional, cultural, and general educational needs of the citizens of Northwest Indiana. Its academic programs lead to certificates and associate, baccalaureate and master's degrees.

The goal of Purdue Calumet's School of Education is to work with other university academic units and local schools to produce teachers who are able to teach a diverse student population utilizing a variety of research-based instructional methods that result in high quality student learning. Purdue Calumet's mission is to produce teachers who excite, encourage and enable their students to be life-long learners.

**Student Demographic Characteristics:** 70% percent of Purdue Calumet undergraduate students are of traditional age (17–25-years-old), attending soon after completing high school. A significant number of students are the first in their families to pursue a college degree. 66% percent are enrolled as full time students. 86% percent are Indiana residents. 75% of Purdue Calumet teacher education program recent graduates are female. Minority students comprise 5% of 2007–2008 teacher education program completers (baccalaureate graduates) and 34% percent of the total undergraduate student body.

**Type of Institution:** At Purdue University Calumet, teacher education candidates are required to take and pass state-mandated tests at two points as they prepare for licensure.

- 1) **Admission to Teacher Education.** Candidates must have completed 30 semester hours of course work, maintained a minimum grade index of 3.0 in education courses and an overall grade index of 3.0 with no grade below a B in English composition courses, have submitted an acceptable professional portfolio, and passed a basic skills test in reading, writing and mathematics (Praxis I) at the state mandated level.
- 2) **Recommendation for Licensure.** Candidates must have completed all teacher education program requirements, completed an academic degree, and passed the appropriate content area test (Praxis II) at the state mandated level in order to be recommended for a teaching license.  
Based on these requirements outlined, Purdue University Calumet is a **licensure institution**.

**Program Completer:** At Purdue University Calumet a program completer is a teacher candidate who has completed all requirements of an Indiana state approved teacher preparation program, except the passing of a mandated content area test at the state-required level.

**Teacher Preparation Programs:** Purdue University Calumet offers six baccalaureate programs leading to state teacher licensure in: Elementary Education, Secondary Education in English, Foreign Language, Mathematics, Science, and Social Studies. Graduate level programs are offered in Special Education. In addition, elementary and secondary teacher candidates who hold a baccalaureate degree can pursue licensure at Purdue Calumet through an individually tailored program that meets all state requirements. As a part of the Northwest Indiana Consortium for Teacher Education, Purdue Calumet offers Transition to Teach programs in five secondary areas, including English, Mathematics, Foreign Language, Physical Science, and Life Science.

**Accreditation:** Purdue University Calumet is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. The University's School of Education programs (undergraduate and graduate) are accredited by the National Council for the Accreditation of Teacher Education, (NCATE). The undergraduate programs were granted continuing accreditation under NCATE 2000 Standards in March, 2002. Graduate programs, formally accredited with the College of Education at Purdue University, are now accredited at Purdue University Calumet.

**Unique Program Characteristics:** Purdue University Calumet's programs involve candidates in developmental field experience throughout their career at Purdue Calumet. These experiences are designed to build upon one another in small steps, so that skill and confidence in teaching develops, leading to success in student teaching. A portfolio developed by students helps focus their professional growth on the areas needed for success in their first teaching position.

**Notable Features and Accomplishments:** Purdue University Calumet has educated a large number of elementary, secondary and special education teachers who are practicing in northwest Indiana schools, as well as a significant number of principals and school counselors in those schools. In collaboration with the Purdue University School of Education at West Lafayette, Purdue Calumet also assists in the education of urban school superintendents.

**Table C1: Single-Assessment Institution-Level Pass-rate** Data: Regular Teacher Preparation Program

Institution Name: Purdue University Calumet Academic Year: 2008-2009 Number of Program Completers: 75

Type of Assessment	Assessment Code #	# Taking Assessment	# Passing Assessment	Institution Pass Rate	Statewide Pass Rate
<b>Basic Skills</b>					
PPST Reading	710	23	23	100%	98%
PPST Writing	720	26	26	100%	100%
PPST Mathematics	730	23	23	100%	99%
Computerized PPST Reading	5710	51	51	100%	100%
Computerized PPST Writing	5720	47	47	100%	100%
Computerized PPST Mathematics	5730	51	51	100%	100%
<b>Academic Content Areas (math, English, biology, etc.)</b>					
Elem Ed Curr Instruc Assessment	011	46	45	98%	97%
Eng Lang Lit Comp Content Knowledge	041	14		100%	100%
Mathematics Content Knowledge	061	8			95%
Social Studies: Content Knowledge	081	8			99%
French: Content Knowledge	173				100%
Spanish Content Knowledge	191	4			92%
Biology Content Knowledge	235	2			94%
Reading Specialist	300	46	46	100%	100%
<b>Other Content Areas (elementary education, career/technical education, health education, etc.)</b>					
Technology Education	050				100%
Family and Consumer Sciences	120				100%
Library Media Specialist	310				
Health	550				100%
<b>Teaching Special Populations (special education, ESL etc.)</b>					
Intro to the Teaching of Reading	200				
Educ. Exceptional Students: CK	353				100%
Educ. Except. Students: Mild Moder. Disabil.	542				100%
<b>Performance Assessments</b>					

**Table C2: Aggregate and Summary Institution-Level Pass-rate** Data: Regular Teacher Preparation Program, 2007-2008

Institution Name: Purdue University Calumet Academic Year: 2007-2008 Number of Program Completers: 101

Type of Assessment	# Taking Assessment	# Passing Assessment	Institution Pass Rate	Statewide Pass Rate
Aggregate: Basic Skills*	96	95	99%	99%
Aggregate: Professional Knowledge*				100%
Aggregate: Academic Content Areas (math, English, biology etc.)*	166	162	98%	99%
Aggregate: Other Content Areas (elementary education, career/technical education, health education, etc.)*				100%
Aggregate: Teaching Special Populations (special education, ESL...)*				100%
Performance Assessments*				
Summary of Individual Assessments**	101	98	97%	99%

\* Aggregate pass rate – Numerator: Number who passed all the tests they took in a category (and within their area of specialization). Denominator: Number of completers who took one or more test in a category (and within their area of specialization).

\*\* Summary pass rate – Numerator: Number who passed all the tests they took within their area of specialization. Denominator: Number of completers who took one or more tests used by the state (and within their area of specialization).

**Table C1a: Single-Assessment Institution-Level Pass-rate**      **Data: Regular Teacher Preparation Program, 2006-2007 Third Year Cohort Update**

*Institution Name: Purdue University Calumet      Academic Year: 2006-2007 follow up data updated 1/07      Number of Program Completers: 109*

Type of Assessment	Assessment Code #	# Taking Assessment	# Passing Assessment	Institution Pass Rate	Statewide Pass Rate
<b>Basic Skills</b>					
General Knowledge	510	1			
Professional Knowledge	520	1			
PPST Reading	710	40	40	100%	98%
PPST Writing	720	43	43	100%	100%
PPST Mathematics	730	37	36	97%	99%
Computerized PPST Reading	5710	49	46	98%	97%
Computerized PPST Writing	5720	47	48	94%	100%
Computerized PPST Mathematics	5730	51	47	100%	100%
Professional Knowledge					
Pre-Kindergarten Education	530				
<b>Academic Content Areas (math, English, biology, etc.)</b>					
Elem Ed Curr Instruc Assessment	011	59	58	98%	99%
Eng Lang Lit Comp Content Knowledge	041	19	19	100%	100%
Mathematics: Content Knowledge	061	73			98%
Social Studies: Content Knowledge	081	13	13	100%	100%
Spanish Content Knowledge	191	3			95%
Biology Content Knowledge	235	1			98%
Chemistry Content Knowledge	245				100%
Reading Specialist	300	59	59	100%	100%

## Bachelor of Arts, Elementary Education/Special Education (Grades K-6)

(128-130 CREDITS)

### 1. Communication

ENGL 10400 English Composition I

**OR**

ENGL 10800 Advanced Freshman Composition

COM 11400 Fundamentals of Speech

ENGL 10500 English Composition II

Foreign Language 20100 (3 credits)

### 2. Humanities and Social Studies

POL 10100 American Government and Politics

HIST 15100 United States History to 1877

HIST 15200 United States History Since 1877

HIST 10400 Introduction to the Modern World

PHIL 10600 Human Experience in Art, Lit., Music, and Philosophy

A&D 20300 Art Activities Elementary Teachers

MUS 20300 Music for Elementary Teachers

### 3. Science and Math

MA 13700 Mathematics for Elementary Teachers I

MA 13800 Mathematics for Elementary Teachers II

MA 13900 Mathematics for Elementary Teachers III

CIS 20400 Intro to Computer Based Systems

SCI 11200 Introduction to Physical Science I

SCI 11300 Introduction to Physical Science II

SCI 11400 Introduction to Life Science I

SCI 31500 Environmental Science for Elementary Education

### 4. Education Requirements (Sequenced)

#### *GATE 1: Introductory course work*

EDFA 20000 History and Philosophy of Education

EDPS 22000 Psychology of Learning

EDPS 26000 Introduction to Special Education

#### *GATE 2: Advanced Premethods*

*(Licensure scores on Praxis I PPST required for registration)*

EDCI 35500(ExL) Teaching and Learning in the K-12 Classroom

EDCI 31100 Media for Children

EDPS 27000 Characteristics of Individuals with Mild Disabilities

EDCI 36600 Use of Assessment in the K-12 Classroom

#### *GATE 3: Methods Semester 1*

EDCI 32100 Literacy I: Grades K-2

EDPS 37000(ExL) Teaching Students with Diverse Learning Needs

EDCI 32300 Educational Technology for Teaching and Learning

EDCI 49000 Lifelong Health & Wellness for Teachers & Children

#### *Method Semester 2*

EDCI 30400 Literacy and Middle Childhood

EDCI 31600 Teaching Social Studies in the Elementary School

EDPS 49100 Topics in Special Education

#### *Methods Semester 3*

EDCI 31500 Teaching Mathematics in the Elementary School

EDCI 31700 Teaching of Science in the Elementary School Curriculum

EDPS 49100 Special Education Law

#### *GATE 4: Professional Semester*

EDCI 49700(ExL) Supervised Teaching (K-6 classroom)

EDCI 49900 Student Teaching In Special Education

*Courses designated as ExL meet the university requirement for experiential learning.*

# Bachelor of Arts or Bachelor of Science in Secondary Education, Senior High, Junior High, Middle School (Grades 5-12)

All Secondary Teaching Programs are offered jointly with the academic departments.  
See the appropriate department for further information.

## 1. Education Requirements (Sequenced)

### GATE 1: Introductory coursework

EDFA 2000	History and Philosophy of Education
EDPS 26000	Introduction to Special Education
EDPS 22000	Psychology of Learning

### GATE 2: Advanced Premethods

(Licensure scores on Praxis I PPST required for registration)

EDCI 35500 (ExL)	Teaching and Learning in the K-12 Classroom
EDCI 36600	Use of Assessment in the K-12 Classroom

### GATE 3: Methods

EDPS 37000 (ExL)	Teaching Students w/Diverse Learning Needs in the K-12 Classroom
EDCI 34X00	Strategies of Instruction in the content major (Methods course)
EDCI 32300	Educational Technology for Teaching and Learning

### GATE 4: Professional Semester

EDCI 49700 (ExL)	Supervised Teaching of Middle School/Jr High/High School Subjects
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**2. Appropriate general education courses and content area courses and GPA for degree and licensure.**

**3. Appropriate electives, fulfilling degree requirements.**

**4. Appropriate Praxis II exams taken.**

# Department of Graduate Studies in Education

*Faculty:* S. Beike; R. Brusca-Vega; J. A. Buckenmeyer; B. R. Colon; R. J. Colon; L. M. Crawford (Emeritus); S. E. Degges-White; M. J. Didelot; S. Duncan; P. M. Frampton; W. V. Giddings (Emeritus); L. A. Hollingsworth; H. S. Jancich; A. Trekles Milligan; D. E. Johnson (Emeritus); T. Mihail; S. D. Paravonian (Emeritus); R. H. Rivers; W. H. Smead (Emeritus); J. O. Smith (Emeritus); A. C. Trimble (Emeritus); E. L. Vockel

The School of Education offers a variety of Master's degrees areas of concentration and license programs through its Graduate Studies in Education office located in the Gyte Annex, Room 122 (219) 989-2326. The GSE secretary is responsible for all paperwork regarding admissions to, and retention in, graduate programs. The Head of the Department of Graduate Studies in Education is responsible for supervision of all graduate programs. For admission to, and successful completion of, any of our graduate programs, the student must fulfill the following requirements:

## A. Admission to a GSE Program

**Step 1.** It is very important that the student contact the advisor of a GSE program in which the student might be interested. Because of federal and state requirements, each of our programs has its own special requirements, procedures, and standards so it is important to speak directly with the advisor who will best know these requirements, procedures, and standards. The advisor will coach the student on the proper steps to take for admission into that specific major.

**Step 2.** Based on the advice given by the advisor, the student must follow two steps to apply for admission. First, the student must fill out the online application requesting admission to the program of choice. Advice on completing this application may be sought from the GSE secretary in Gyte Annex, Room 122. Second, the student must check with the GSE secretary for any additional required forms or activities that need to be completed for admission to the desired program. Any such forms or activities must be completed and returned to the GSE secretary before admission may occur. When all forms and requested information are submitted, the GSE secretary will continue the admissions procedure by forwarding the student's admissions folder to the appropriate advisor.

**Step 3.** The advisor of the student's desired program will review the admissions materials, will notify the student of any additional procedures, will bring the folder before the GSE Admissions Committee for action and, if the action is positive, will forward the student's folder to the Head for processing. The student will receive a letter in a few weeks from the Graduate School in West Lafayette informing the student of admission into the program.

**Step 4.** The student will again meet with the advisor and begin taking the required coursework.

## B. Completion of a GSE Program

**Step 1.** Completion of a GSE program will require successfully completing coursework as well as fulfilling specific requirements unique to each program. It is, therefore, necessary for the student to make certain to meet with the program advisor and discover ANY AND ALL additional program requirements for graduation.

All of our degree and license programs are standards-driven, so the student must prove the attainment of all standards in whatever form the individual program or license requires. A portfolio, for example, will be one form of proving standards attainment, but the details of the portfolio will differ with each program or licensing area. Some license programs may require a state exam as well. Therefore, the student must make certain throughout his or her program to complete all graduation requirements as they are assigned. This must be done before the advisor will present him or her for graduation or for license completion.

**Step 2.** In order to graduate, the student must have a written, formalized plan of study (POS). This POS is a contract between the student and the student's advisor listing the specific courses a student is to complete. It is the student's responsibility to contact his/her advisor for the completion of a POS. The earliest that a POS may be written is as soon as the student has been admitted into the desired program and as soon as any conditions on such admission have been fulfilled. The latest a POS may be written is the semester before that in which the student expects to graduate.

*The following is a list of our Master's degrees areas of concentration and licensing programs. Programs are subject to change, so it is the student's responsibility to work with the appropriate advisor to keep updated on any new requirements.*

## Master of Science in Education (Special Education Concentration)

(33 hours)

*In addition to the following coursework, a professional portfolio is required.*

### Foundations (9 hours)

#### Humanistic Education (3 hours)

EDCI 58500 Multicultural Education

#### Behavioral Education (3 hours)

EDPS 53000 Advanced Educational Psychology

#### Research in Education (3 hours)

*Select one of the following courses:*

EDPS 53100 Introduction to Measurement and Evaluation

EDPS 53300 Introduction to Educational Research I: Methodology

### Special Education Core (18 hours)

*Select six of the following courses:*

EDPS 56300 Identification, Evaluation, and Assessment of Individuals with Exceptionalities

EDPS 56500 Intervention Strategies and Research

EDPS 56600 Supervised Teaching in Special Education: Mild Intervention

EDPS 56600 Supervised Teaching in Special Education: Intense Intervention

EDPS 56800 Special Education Issues

EDPS 59000 *with title* Internship in Special Education: Mild Intervention

EDPS 59000 *with title* Internship in Special Education: Intense Intervention

EDPS 59000 *with title* Internship II: Intense Intervention

EDPS 59000 *with title* Individuals with Severe Disabilities: Historical Perspectives, Etiology and Characteristics

EDPS 59000 *with title* Seminar in Special Education: Serving Students with Autism Spectrum Disorders

EDPS 59000 *with title* Intervention Strategies and Research for Teaching Individuals with Severe Disabilities I

EDPS 59000 *with title* Intervention Strategies and Research for Teaching Individuals with Severe Disabilities II

EDPS 59100 *with title* Integrating Students with Special Needs

EDPS 59100 *with title* Historical Perspectives, Etiology, and Characteristics of Individuals with Mild Disabilities

EDPS 59100 *with title* Applied Behavior Analysis for Teachers

EDPS 59100 *with title* Advanced Technological Applications in Special Education

EDPS 66400 *with title* Seminar in Special Education: Law and Individuals with Disabilities

EDPS 66400 *with title* Seminar in Special Education: Collaboration

*\* With the exception of Integrating Students with Special Needs courses listed above have prerequisites; please consult your advisor.*

### Related (6 hours)

*Select two of the following courses:*

EDCI 51100 Mathematics in the Elementary School

EDCI 59100 *with title* Literacy Problems: Evaluation and Remediation

EDCI 59100 *with title* Human Issues In Technology

EDCI 56000	Educational Technology for Teaching and Learning
EDPS ---	(course[s] from the above list)
PSY 53200	Psychological Disorders of Childhood

## License in Exceptional Needs: Mild Interventions

(28 HOURS)

*This is not a "stand-alone" license. Candidates must first hold a valid teaching license.*

EDPS 59100 <i>with title</i>	Integrating Students with Special Needs
EDPS 59100 <i>with title</i>	Historical Perspectives, Etiology, and Characteristics of Individuals with Mild Disabilities
EDPS 56300	Identification, Evaluation, and Assessment of Individuals with Exceptionalities
EDPS 56500	Intervention Strategies and Research
EDPS 59100 <i>with title</i>	Applied Behavior Analysis for Teachers
EDCI 59100	Literacy Problems: Evaluation and Remediation
EDCI 51100	Mathematics in the Elementary School
EDPS 66400 <i>with title</i>	Seminar in Special Education: Collaboration
EDPS 56600	Supervised Teaching in Special Education: Mild Intervention (4 credit hours)
<b>OR</b>	
EDPS 59000	Internship in Special Education: Mild Intervention (Candidates who hold an exceptional needs emergency permit may see the advisor regarding the internship alternative.) (Prerequisites: Completion of coursework above)

*These courses may also be counted toward the Master of Science in Special Education, a 33-hour program which requires a portfolio. Please contact Tom Mihail ([mihailt@purduecal.edu](mailto:mihailt@purduecal.edu)) for details.*

## License in Exceptional Needs: Intense Intervention

(21 HOURS)

*This is a cohort program, which begins each Spring semester, beginning in January. This is not a 'stand-alone' license. Candidates must first hold a valid teaching license. In addition, candidates for this program must (1) first be licensed in Mild Interventions K-12 or complete a specific four-course alternative (Integrating Students with Special Needs; Identification, Evaluation, and Assessment of Individuals with Exceptionalities; Applied Behavior Analysis for Teachers; and Seminar in Special Education: Collaboration).*

*Supported by a US Department of Education grant, the program is tuition-free for qualifying candidates. Send a letter of interest and resume (as a single e-mail attachment) to Dr. Rita Brusca-Vega, Project Director ([vegar@purduecal.edu](mailto:vegar@purduecal.edu)).*

EDPS 59000 <i>with title</i>	Individuals with Severe Disabilities: Historical Perspectives, Etiology, and Characteristics
EDPS 59000 <i>with title</i>	Intervention Strategies and Research for Teaching Individuals with Severe Disabilities I
EDPS 59000 <i>with title</i>	Intervention Strategies and Research for Teaching Individuals with Severe Disabilities II
EDPS 59000 <i>with title</i>	Seminar in Special Education: Diversity, Families and Disability
EDPS 59000 <i>with title</i>	Seminar in Special Education: Serving Students with Autism Spectrum Disorder
EDPS 59000 <i>with title</i>	Internship I: Intense Intervention
EDPS 59100	Advanced Technological Applications in Special Education
EDPS 56600	Supervised Teaching in Special Education (4-Hour Course)
<b>OR</b>	
EDPS 59000 <i>with title</i>	Internship in Special Education: Intense Intervention

*These courses may also be counted toward the Master of Science in Special Education, a 33-hour program which requires a portfolio. Please contact Tom Mihail ([mihailt@purduecal.edu](mailto:mihailt@purduecal.edu)) for details.*

## Director of Exceptional Needs License Program (Special Education Director's License)

(40 Semester Hours)

### 1. Special Education/Foundations Block (12 hrs)

EDCI 58500	Multicultural Education
EDPS 53000	Advanced Educational Psychology
EDPS 53300	Introduction to Educational Research I: Methods
EDPS 66400	Sem: Special Education Law
EDFA 60800	Business Management in Education

### 2. Administration Block (28 hours):

*(Must be taken in sequence)*

EDFA 51200	Foundations of Educational Administration
EDFA 60900	Legal Aspects of American Education
EDFA 61000	Supervision of Instruction and Instructional Personnel
EDFA 51600	School and Community Relations
EDFA 59100	Legal Aspects II
EDCI 59100	School Curriculum
EDFA 59100	School Administration
EDFA 69500 <i>with title</i>	Internship In Special Education
EDFA 69500 <i>with title</i>	Internship In Administration (4-Hour Course)

*Note: This program is intended for those who already have a master's degree and are seeking licensure. It is also intended for those who already have special education licensure, experience and background. The intent is to couple the Exceptional Needs Director's License with the Building Level Administrator's License whenever possible. However, a master's degree can be worked into the program for those who do not yet have one. Also, additional special education course work may be built into the program for those who need it. The first step is to contact Dr. Pam Frampton the administration advisor:*

[frampton@purduecal.edu](mailto:frampton@purduecal.edu)

*Revised: 06-07*

## Master's Degree in Education (Counseling and Human Services Concentrations)

*The School of Education offers 3 tracks in counseling: Mental Health Counseling, School Counseling, and Human Services. The concentrations in Mental Health and School Counseling lead to licensure in Indiana. The Human Services track is a non-licensure degree program. However, additional courses can be taken to complete the degree in Mental Health Counseling if a decision to do so is made before the internship has begun and with permission of the faculty. All students accepted into our program must obtain a limited criminal history check before their first class. For more information about our program, please email Dr. Lisa Hollingsworth at [hollings@purduecal.edu](mailto:hollings@purduecal.edu).*

## Indiana State License Program, Mental Health Counseling

(60 HOURS)

EDPS 50000	Human Relations in Group Counseling
EDPS 50300	Intro to Mental Health Counseling
EDPS 50500	Career Theory
EDPS 50700	Counseling Multicultural and Diverse Populations
EDPS 53100	Intro. Measurement and Evaluation
EDPS 59100 <i>with title</i>	Research in Counseling
EDPS 59100 <i>with title</i>	Human Growth & Life Span Development
EDPS 59100 <i>with title</i>	Counseling and Psychopathology
EDPS 60000	Counseling Theories and Techniques
EDPS 60100	Counseling Techniques Lab
EDPS 61000	Counseling Practicum
EDPS 59100 <i>with title</i>	Ethics in Mental Health Counseling
EDPS 62000 <i>with title</i>	Seminar: Addictions
EDPS 62000	Counseling Seminar (Electives): Diverse Topics (4 electives, 12 credit hrs)
EDPS 69500	Internship in Education (900 hours; 9 credit hours)

## Indiana State License Program, School Counseling

(51 HOURS)

### Required Courses

EDPS 50000	Human Relations in Group Counseling
EDPS 50100	Intro to School Counseling
EDPS 50500	Career Theory
EDPS 50700	Counseling Multicultural and Diverse Populations
EDPS 53100	Intro. Measurement and Evaluation
EDPS 59100 <i>with title</i>	Research in Counseling
EDPS 59100 <i>with title</i>	Human Growth & Life Span Development
EDPS 60000	Counseling Theories and Techniques
EDPS 60100	Counseling Techniques Lab
EDPS 60900	Program Development/Ethics/Consultation
EDPS 61000	Counseling Practicum
EDPS 59100 <i>with title</i>	Counseling Children and Adolescents
EDPS 62000 <i>with title</i>	Seminar: Addictions
EDPS 62000 <i>with title</i>	Counseling Seminar (Electives): Diverse Topics (2 electives, 6 credit hrs)
EDPS 69500	Internship in Education (600 hours; 6 credit hrs)

## Master of Science in Education (Human Services Concentration)

(non-licensure program) (33 HOURS)

EDPS 50000	Human Relations in Group Counseling
EDPS 50300	Intro to Mental Health Counseling
EDPS 50700	Counseling Multicultural and Diverse Populations
EDPS 59100 <i>with title</i>	Ethics in Mental Health Counseling
EDPS 59100 <i>with title</i>	Research in Counseling
EDPS 59100 <i>with title</i>	Counseling and Psychopathology
EDPS 62000	Counseling Seminar (Electives): Diverse Topics (4 electives, 12 credit hrs)
EDPS 69500	Internship in Education (300 hours; 3 credit hours)
EDPS 620	Counseling Seminar (Electives): Diverse Topics (4 electives, 12 credit hrs)
EDPS 695	Internship in Education (300 hours; 3 credit hours)

## Certificate in Addiction Counseling

(18 CREDITS)

Only candidates accepted into the certification program or any program within the Department of Counseling & Development may enroll in these courses. Enrollment is strictly limited to these programs.

*Note: Completed course work will be listed on a transcript; however, this is an informal program. Completion of this group of courses does not award a degree or formal certificate. However, this program of study does include all of the necessary coursework, as identified by ICAADA, to sit for the state licensure exam to become a licensed addictions counselor. This is an ICAADA approved program and are approved by the state for CEUs.*

The following courses must be completed with a grade of B or better. A grade of C in any course will be grounds for dismissal from the certification program in addiction counseling. Courses need NOT be taken sequentially. A limited criminal history check must be submitted by each student before his/her first class.

EDPS 59100 <i>with title</i>	Theories of Addiction Counseling and Psychopharmacology
EDPS 59100 <i>with title</i>	Seminar I: Diversity, HIV/AIDS, and Dual Diagnosis
EDPS 59100 <i>with title</i>	Seminar II: Ethics, Criminal Justice, and Social Systems
EDPS 59100 <i>with title</i>	Recovery and Relapse
EDPS 59100 <i>with title</i>	Techniques of Addiction Counseling: Counseling Skills, Groups and Processes ( <i>screening, referrals, and treatment planning</i> )
EDPS 59100 <i>with title</i>	Practicum

## Certificate in Expressive Arts Therapy

(15 Credit Hours)

This certificate is only open to graduate students in counseling and to counselors and social workers for the purpose of professional development.

*Note: Completed course work will be listed on a transcript; however, this is an informal program. Completion of this group of courses does not award a degree or formal certificate.*

The courses are all EDPS 59100 courses and include the following:

- Foundations of Expressive Arts Therapy
- Play Therapy
- Visual Arts/Imagery in Counseling
- Expressive Writing, Drama, and Movement
- Sandplay and Symbolism

## Master of Science in Education (Instructional Technology Concentration)

(33 CREDITS)

### Entrance gate (6 hours-must be completed before technology courses may be taken)

EDPS 53000	Advanced Educational Psychology
EDCI 57200	Introduction to Learning Systems Design

### Technology Courses (15 hours - suggested sequence)

EDCI 55400	Production of Instructional Materials
EDCI 56600	Educational Applications of Hypermedia
EDCI 57500	Foundations of Distance Learning
EDCI 66300	Interactive Video and Multimedia
EDCI 59100 <i>with title</i>	Instructional Technology Leadership

### Foundation Courses (6 hours - can be completed at any time)

EDPS 53300	Introduction to Educational Research I
	<b>OR</b>
EDPS 53100	Introduction to Measurement and Evaluation
	<b>AND</b>
EDCI 59100 <i>with title</i>	Human Issues in Technology

### Elective (3 hours)

*Any graduate level course approved by your advisor and listed in your plan of study*

### Capstone Project (3 hours - must be completed at end of program)

EDCI 57300	Instructional Development Practicum
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## Master of Science in Education (Instructional Technology Concentration)

(33 CREDITS)

### Entrance gate (6 hours)

EDCI 57200	Introduction to Learning Systems Design
EDCI 53100	Learning Theory and Instructional Design (see advisor)

### Technology Courses (15 hours - suggested sequence)

EDCI 59100X	Foundations of Grant Writing
EDCI 56600	Educational Applications of Hypermedia OR
EDCI 66900	Introduction to E-Learning
EDCI 57500	Foundations of Distance Learning
EDCI 66300	Interactive Video and Multimedia
EDCI 58700	Leadership & Management in Instructional Technology OR
EDCI 59100	Instructional Technology Leadership
EDCI 67200	Advanced Practices in Learning Systems Design

### Foundation Courses (6 hours - can be completed at any time)

EDCI 57700	Strategic Assessment and Evaluation OR
EDPS 53100	Introduction to Measurement and Evaluation (see advisor for appropriate section)

EDCI 57100 Advanced Assistive Technology OR  
EDCI 59100 Human Issues in Technology

**Capstone Project (3 hours - must be completed at end of program)**

EDCI 57300 Instructional Development Practicum

## Certification in Instructional Technology

The Instructional Technology Program is now offering a new certificate program in Instructional Technology for K-12 teachers, based in the ISTE standards adopted by the State of Indiana. Trainers and other instructional leaders in business, health, and higher education are also welcome to participate in this certificate program as well.

*Note: Completed course work will be listed on a transcript; however, this is an informal program. Completion of this group of courses does not award a degree or formal certificate.*

Visit the Web or contact us today to learn more about this certification opportunity!

**Courses (total of 15 credit hours):**

EDCI 57200 Intro to Instructional Development and Communication  
EDCI 56600 Educational Applications of Hypermedia  
EDCI 57500 Foundations of Distance Learning  
EDCI 59100 *with title* Human Issues in Technology

*Choose ONE of the following:*

EDCI 55400 Production of Instructional Materials  
EDCI 66300 Interactive Video  
EDCI 59100 *with title* Instructional Technology Leadership

### Additional Coursework Available for License Renewal through the Instructional Technology program

Purdue University Calumet wants to help teachers, administrators, and other licensed educators reach their goals, learn more, and get the credits they need to renew their licenses through in-class and online coursework. Purdue Calumet allows educators currently holding a valid Indiana Teacher's License (Those holding emergency permits cannot renew using these courses) to acquire needed academic credits in several different ways:

- Develop and teach a 15-hour, project-based workshop or instructional session for other teachers or administrator at your own school district (Pass/No Pass Option);
- Take a one credit-hour, online or person-to-person learning module on a technology topic approved by Graduate Studies faculty;
- Take a three credit-hour, semester long course in Instructional Technology and Design (or other areas) online or in the traditional classroom with qualified, friendly, and helpful Graduate Studies faculty. 3 credit hour classes offered: EDCI 56000 Computers in the Classroom, EDCI 59100 Designing Instruction for the Web (online), EDCI 59100 Instructional Design for Online Education. Please contact Helen Jancich, (Jancich@purduecal.edu) for information regarding license renewal.

## Indiana State License Program, Educational Administration

(37 CREDITS)

**1. Foundations Block (6 hours)**

EDPS 53000 Advanced Educational Psychology  
EDPS 53300 Introduction to Educational Research

**2. Administration (28 hours)**

*(Must be taken in sequence)*

EDFA 51200 Foundations Educational Administration  
EDFA 60900 Legal Aspects of American Education  
EDFA 61000 Supervision of Instruction and Instructional Personnel  
EDFA 51600 School Community Relations  
EDFA 59100 Legal Aspects II  
EDCI 59100 School Curriculum  
EDPS 66400 Seminar in Special Education (Special Education Law)  
EDFA 59100 School Administration  
EDFA 69500 Internship in Education (is a 4 hour course)

**3. Electives (3 hours) Below are some suggestions**

*(Must be in Administration, there is at least one each semester)*

EDFA 61300 Collective Bargaining  
EDFA 51300 Educational Facilities Planning  
EDFA 59100 School Safety  
EDFA 59100 *with title* Data-Driven School Improvement  
EDFA 60800 *with title* Business Management in Education

*Revised: 06-07*



*School of*  
ENGINEERING, MATHEMATICS and SCIENCE

# School of ENGINEERING, MATHEMATICS and SCIENCE

Michael C. Henson, Interim Dean  
[www.purduecal.edu/ems](http://www.purduecal.edu/ems)

The School of Engineering, Mathematics and Science (EMS) houses the following departments:

- Biological Sciences; 219/989-2404, Gyte Bldg., Room 298
- Chemistry and Physics; 219/989-2284, Gyte Bldg., Room 257
- Electrical and Computer Engineering; 219/989-3106, Potter Bldg., Room 121
- Mechanical Engineering; 219/989-2472, Powers Bldg., Room 211
- Mathematics, Computer Science and Statistics; 219/989-2273, Classroom Office Bldg., Rooms 315 & 316

## Associate Degree Program

- Biology  
—Emergency Medical Services/Paramedic

## Bachelor's Degree Programs

- Biology
  - Biology - General Biology
  - Biology - Biotechnology
  - Biology - Cell Biology/Physiology
  - Biology - Ecology
  - Biology - Microbiology
  - Biology - Pre dentistry
  - Biology - Pre medicine
  - Biology - Preoccupational Therapy
  - Biology - Preoptometry
  - Biology - Prephysical Therapy
  - Biology - Prepharmacy
  - Biology - Preveterinary Science and Medicine
  - Secondary Science Teaching - Biology
  - Medical Technology
  - Minor in Biotechnology
  - Minor in Environmental Science
- Chemistry/Physics
  - Chemistry
  - Chemistry - Premedical
  - Secondary Science Teaching - Chemistry
  - Chemistry Minor
  - Secondary Science Teaching - Physics
  - Secondary Science Teaching - Physical Sciences
  - Physics
  - Computational Physics
  - Engineering Physics
  - Physics Minor
  - Astrophysics Minor
- Mathematics
  - Mathematics
  - Mathematics Education
  - Computer Science
  - Minor in Computer Science
  - Minor in Mathematics
  - Minor in Applied Mathematics
- Civil Engineering
- Computer Engineering
- Electrical Engineering
  - Mechatronics minor
- Interdisciplinary Engineering
- Mechanical Engineering
  - Mechatronics minor

## Graduate Certificate

- Biotechnology
- Engineering Project Management

## Combined Bachelor's and Master's Degree Program

- Biological Sciences

## Master's Degree Programs

- Biology
- Biology Teaching
- Computer Science
- Engineering
- Mathematics

## Transfer Programs

- Biology
  - Agriculture
  - Preforestry

## Career Opportunities

Graduates of Purdue Calumet's School of Engineering, Mathematics and Science may work in business, industry, government or education as a computer engineer, operations research team member, environmental and pollution controls manager, actuary, laboratory technician, structural design engineer, automotive engineer, circuit design engineer, manufacturing engineer, plant engineer, quality control engineer, system design engineer, cryptographer, chemist, physicist, science editor, numerical analyst, biological photographer, genetic engineer, middle school mathematics teacher, medical/science writer, medical illustrator, biomedical technologist, nuclear physicist, astronomer, quality control manager; high school mathematics or science teacher; civil engineer; electrical engineer and more.

# Department of Biological Sciences

**W.-T. Evert Ting, Interim Head.** *Faculty:* Y.D. Choi; J.C. Creighton; T.J. Dougherty; M.C. Henson; B. Mania-Farnell; R. Sarac; C.C. Tseng; F.-S. Wang; M.I. Zimmer  
*Emeritus Faculty:* A.M. Chelich; R.L. Peloquin; J.R. Shoup; J.F. Wermuth; R.J. Werth; K.S. Wilson  
*Continuing Lecturer:* N. O'Keefe  
*Lab Coordinator:* L. Levin  
*Specialist:* L. Dorworth (Aquatic Ecology Specialist, IL-IN Sea Grant College Program).

Biology is a fascinating field that holds important keys to the future of our society. New biological research, in areas such as gene therapy, stem cells, energy production from biomass, and environmental remediation will change the way we live our lives in the near future. To help students prepare for careers in this exciting field, we are committed to excellence in our teaching and research programs.

The Department of Biological Sciences at Purdue University Calumet offers a comprehensive education that provides students with both a solid background in the breadth of the biological sciences and the flexibility to meet their needs as individuals. At the undergraduate level, we offer Bachelor of Science (BS) degrees in Biology, Biology Teaching, and Medical Technology and an Associate of Applied Science Degree in Emergency Medical Services/Paramedic. For our BS in Biology, students may choose one of the five options (General Biology, Biotechnology, Cell Biology/Physiology, Ecology, and Microbiology) and six four-year pre-professional programs (Premedicine, Predentistry, Preoptometry, Prephysical Therapy, Preoccupational Therapy, and Preveterinary Science and Medicine). In addition, we offer a two-year pre-pharmacy program and two two-year transfer programs in cooperation with the School of Agriculture at Purdue University West Lafayette. At the graduate level, we offer Master of Science (MS) degrees in Biology and Biology Teaching, for which students can choose either thesis or non-thesis options. Our graduate degrees can be used to further professional development directly, or as a bridge to additional graduate studies in the life sciences.

Our department emphasizes an integrated approach to teaching modern biology, in that faculty research is directly incorporated as an important component of student course work. We have an active and creative faculty who bring new knowledge and innovative concepts to the classroom through their research. Areas of strength in the department include molecular biology with emphasis in genetic engineering and biotechnology, cell biology, microbiology, physiology, and ecology. In these areas students utilize cutting-edge laboratory facilities and equipment to acquire hands-on experience with modern investigational and laboratory techniques as they gain a firsthand knowledge of the biological sciences. Supervised research opportunities are available for both undergraduate and graduate students and graduate teaching and research assistantships are available to support students pursuing an MS degree.

## Options and Programs

- Associate of Applied Science, Emergency Medical Services/Paramedic
- Bachelor of Science, Biology:
  - ~ General Biology Option
  - ~ Biotechnology Option
  - ~ Cell Biology/Physiology Option
  - ~ Ecology Option
  - ~ Microbiology Option
- Bachelor of Science, Biological Science Teaching
- Bachelor of Science, Medical Technology
- Preprofessional programs in Predentistry, Premedicine, Preoccupational Therapy, Preoptometry, Prepharmacy, Prephysical Therapy, and Preveterinary Science and Medicine
- Transfer programs in Agriculture and Preforestry
- Minor in Biotechnology
- Minor in Environmental Science
- Master of Science, Biology
- Master of Science, Biology Teaching
- Graduate Biotechnology Certificate

## Associate of Applied Science, Emergency Medical Services/Paramedic

(70 CREDITS)

This associate degree program prepares students for careers in paramedicine. The program has two components and requires at least 3 years for completion. The academic phase of the program occurs on the Purdue University Calumet campus and includes course work in the basic sciences and general studies. The clinical professional phase of the program is offered at an affiliated hospital (St. Anthony Medical Center, Crown Point, St. Mary's Medical Center, Hobart or Methodist Hospitals, Inc., Gary, Indiana) approved to offer the paramedic curriculum.

*Note: EMT (Emergency Medical Technician) training and certification must be completed prior to applying for the clinical phase.*

### Preclinical Phase

(32 CREDITS AT PURDUE CALUMET)

#### First Semester (16 credits)

- BIOL 21300 Human Anatomy and Physiology I
- CHM 11900 General Chemistry
- ENGL 10400 English Composition I
- MA 14700 Algebra and Trigonometry for Technology I
- PSY 12000 Elementary Psychology

#### Second Semester (16 credits)

- BIOL 21400 Human Anatomy and Physiology II
- ENGL 10500 English Composition II
- COM 11400 Fundamentals of Speech Communication
- PSY Appropriate upper level course (consult your advisor)
- Elective (3 credits)

*Note: Students with strong backgrounds in Math and/or Chemistry may substitute a higher-level course for MA 147 and/or CHM 119.*

### Clinical Phase

(38 CREDITS)

Successful completion of an 18-month clinical portion includes lectures, conferences, a technical preceptorship, and field experience at an affiliated school of emergency medical services/paramedic.

*Note: Students must register for "Candidate Only" status at Purdue Calumet at the beginning of the semester in which they expect to complete their degree.*

### Bachelor of Science – Biology

(124 CREDITS)

Options are offered in General Biology, Biotechnology, Cell Biology/Physiology, Ecology, and Microbiology; Programs are offered in Premedicine, Predentistry, Prephysical Therapy, Preoccupational Therapy, and Preveterinary Science and Medicine.

General Education Requirements for all Biology Degrees (33–36 credits):

### English Composition (3–6 credits)

ENGL 10400–10500 English Composition I & II

**OR**

ENGL 10800 Accelerated First-Year Composition

### Communication (3 credits)

COM 11400 Fundamentals of Speech Communication

### Humanities & Social Science (15 credits)

Must include:

Humanities (min. 3 credits)

Social Sciences (min. 3 credits)

Foreign Languages (0–6 credits)

### Mathematics (9 credits)

MA 22300/22400 Calculus I & II

BIOL 33000 Biostatistics

**OR**

STAT 30100 Elementary Statistical Methods I

### Computer Science (3 credits)

CIS 20400, CS 34200, or any approved computer course

Required Science Courses (27 credits)

### Chemistry (19 credits)

CHM 115–116 General Chemistry I & II

Students not prepared for CHM 11500 must take CHM 10000 first.

CHM 255–25501 Organic Chemistry and laboratory I

CHM 256–25601 Organic Chemistry and laboratory II

CHM 333 Biochemistry

Ecology option students may take CHM 324 Environmental Chemistry in place of CHM 33300.

### Physics (8 credits)

PHYS 22000/22100 General Physics I & II

## BIOLOGY

### 1. Basic Core Courses (required by all biology majors) (18 credits)

BIOL 10100 Introductory Biology I

BIOL 10200 Introductory Biology II

BIOL 10700 Freshman Experience in Biological Sciences

BIOL 24300 Introductory Cell Biology

BIOL 24400 Genetics

BIOL 24401 Genetics Lab

BIOL 42800 Senior Seminar (BIOL 42600 Senior Capstone may be substituted)

### 2. Optional Core Courses

A. General Biology Option – Choose 2 of the following (8 credits)

BIOL 31600 Basic Microbiology

BIOL 33300 Ecology

BIOL 35700 Animal Physiology

B. Biotechnology Option (8 credits)

BIOL 31600 Basic Microbiology\*

BIOL 50800 Recombinant DNA Technique

\*BIOL 316 should be taken during the 2nd year if possible. It may be substituted for by BIOL 221 Introduction to Microbiology.

C. Cell Biology/Physiology Option (8 credits)

BIOL 35700 Animal Physiology (Required)

BIOL 31600 Basic Microbiology

**OR**

BIOL 33300 Ecology

D. Ecology Option (8 credits)

BIOL 33300 Ecology (Required)

BIOL 31600 Basic Microbiology

**OR**

BIOL 35700 Animal Physiology

E. Microbiology Option (8 credits)

BIOL 31600 Basic Microbiology (Required)\*

BIOL 33300 Ecology

**OR**

BIOL 35700 Animal Physiology

\*BIOL 316 should be taken during the 2nd year if possible. It may be substituted for by BIOL 221 Introduction to Microbiology.

### 3. Elective Courses

A. General Biology Option (12 credits)

Additional 12 credit hours of biology electives at the 30000-level or above excluding BIOL 33000 and BIOL 33900. BIOL 31600 (Basic Microbiology), BIOL 33300 (Ecology), or BIOL 35700 (Animal Physiology) can be taken as an elective course if it was not taken as an optional core course.

B. Biotechnology Option (14 credits)

BIOL 35700 Animal Physiology

BIOL 48800 Biological Sciences Internship (ExL)  
(Topics related to Biotechnology)

BIOL 48900 Biological Sciences Research (ExL)  
(Topics related to Biotechnology)

BIOL 48900 Independent Student Research  
(Topics related to Biotechnology)

BIOL 50700 Molecular Biology

BIOL 52500 Neurobiology

BIOL 53300 Medical Microbiology

BIOL 53400 Medical Microbiology Laboratory

BIOL 56100 Immunology

BIOL 56600 Developmental Biology

BIOL 49500/59500 Special Topic/Assignments\*

\*Repeatable for credits. Topics may include but not limited to human cytogenetics technology, medical genetics, bioinformatics, food microbiology, environmental microbiology, tissue culture, and special assignments (research) in genetics, molecular biology, and biotechnology. Consult your advisor.

C. Cell Biology/Physiology Option (12 credits)

BIOL 34200 Biological Sciences Practicum (ExL)  
(Topics related to Cell Biology or Physiology)

BIOL 48800 Biological Sciences Internship (ExL)  
(Topics related to Cell Biology or Physiology)

BIOL 48900 Biological Sciences Research (ExL)  
(Topics related to Cell Biology or Physiology)

BIOL 48900 Independent Student Research  
(Topics related to Cell Biology or Physiology)

BIOL 52500 Neurobiology

BIOL 56600 Developmental Biology

BIOL 50700 Molecular Biology

BIOL 50800 Recombinant DNA Techniques

BIOL 53300 Medical Microbiology

BIOL 53400 Laboratory in Medical Microbiology

BIOL 56100 Immunology

BIOL 58000 Evolution

BIOL 49500/59500 Special Topic/Assignments\*

\*Repeatable for credits. Topics may include but not limited to cell/tissue culture, medical physiology, medical genetics, bioinformatics, electrophysiology, advanced cell biology, endocrinology, and special assignments (research) in cell biology and animal physiology. Consult your advisor.

D. Ecology Option (12 credits)

BIOL 30400 Plant Physiology

BIOL 31600 Basic Microbiology (if not taken as an optional core course)

BIOL 35700 Animal Physiology (if not taken as an optional core course)

BIOL 40500 Conservation Biology

BIOL 47700 Phycology

BIOL 48800 Biological Sciences Internship (ExL) (Topics related to Ecology)

BIOL 48900 Independent Student Research (ExL) (Topics related to Ecology)

BIOL 50700 Molecular Biology

BIOL 50800	Recombinant DNA Techniques
BIOL 58000	Evolution
BIOL 58700	Biogeography
BIOL 58800	Plant Ecology
BIOL 58900	Plant Ecology Laboratory
BIOL 59100	Field Ecology
BIOL 59300	Ethology
BIOL 49500/59500	Special Topic/Assignments*

\*Repeatable for credits. Topics may include but not limited to aquatic ecology, environmental microbiology, ornithology, wetland ecology, restoration ecology, and special assignments (research) in ecology, evolution, and environmental science. Consult your advisor.

*E. Microbiology Option (12 credits)*

BIOL 47700	Phycology
BIOL 48800	Biological Sciences Internship (ExL) (Topics related to Cell Biology or Physiology)
BIOL 48900	Independent Student Research (ExL) (Topics related to Microbiology or Immunology)

BIOL 50700	Molecular Biology
BIOL 50800	Recombinant DNA Techniques
BIOL 52400	Microbiology I
BIOL 53300	Medical Microbiology
BIOL 53400	Medical Microbiology Laboratory
BIOL 56100	Immunology
BIOL 49500/59500	Special Topic/Assignments*

\*Repeatable for credits. Topics may include but not limited to bioinformatics, food microbiology, environmental microbiology, tissue culture, special assignments (topics related to microbiology or immunology).

## Bachelor of Science - Biological Science Teaching

(124 CREDITS)

Offered jointly with the School of Education; see advisor in School of Education for further information.

### English Composition (3-6 credits)

ENGL 10400/10500 English Composition I & II

OR

ENGL 10800 Accelerated First-Year Composition

### Communication (3 credits)

COM 11400 Fundamentals of Speech Communication

### Humanities (3 credits)

HIST 33400 Science And Technology in Western Civilization

### Mathematics (minimum 6 credits)

MA 22300/22400 Introductory Analysis I/II

### Chemistry (16 credits)

CHM 11500/11600 General Chemistry I & II

\*Students not prepared for CHM 11500 must take CHM 10000 first.

CHM 255-25501 Organic Chemistry and laboratory I

CHM 256-25601 Organic Chemistry and laboratory II

### Physics (8 credits)

PHYS 22000/22100 General Physics I & II

### Science (2 credits)

SCI 22000 Health & Safety

### BIOLOGY (32 credits)

BIOL 10100	Introductory Biology I
BIOL 10200	Introductory Biology II
BIOL 10700	Biol Freshman Experience
BIOL 24300	Introductory Cell Biology
BIOL 24400	Genetics
BIOL 24401	Genetics Lab
BIOL 33900	Social Issues in Biology

BIOL 48900 Biological Sciences Research (ExL) (1 credit)

Choose any two of the following three courses.

BIOL 31600 Basic Microbiology

BIOL 33300 Ecology

BIOL 35700 Animal Physiology

PLUS:

BIOL Elective 3 credits at 30000-level or above

### Education Requirements (Sequenced) (42 credits)

PREREQUISITE FOR CLUSTER I (See page 41 for more information)

EDCI 20600 Introduction to Teaching

#### Cluster I

EDPS 22000 Psychology of Learning

EDPS 28500 Diversity and Education

EDCI 26000 Introduction to Computers in Education

#### Cluster II

EDCI 35500 Teaching and Learning in K-12 Classroom

EDPS 26000 Introduction to Special Education

#### Methods

EDCI 36600 Use of Assessment in the K-12 Classroom

EDPS 37000 Teaching Students with Diverse Learning Needs in K-12 Classroom

EDCI 30900 Reading in the Middle and Secondary Schools

EDCI 34600 Strategies of Instruction in the content major (Methods course)

EDCI 49700 Supervised Teaching of Senior High School Subjects

#### Free Electives (up to 9 credits)

## Bachelor of Science - Medical Technology

(124 credits)

### English Composition (3-6 credits)

ENGL 10400/10500 English Composition I & II

(ENGL 10500 may be replaced by another English writing/literature course or ENGL 22000 Technical Report Writing by students who receive an A grade in ENGL 10400.)

OR

ENGL 10800 Accelerated First-Year Composition

### Communication (3 credits)

COM 11400 Fundamentals of Speech Communication

### Humanities & Social Science (15 credits)

Must include:

Humanities (min. 3 credits)

Social Sciences (min. 3 credits)

Foreign Languages (0-6 credits)

### Mathematics (9 credits)

MA 22300/22400 Calculus I & II

BIOL 33000 Biostatistics

OR

STAT 30100 Elementary Statistical Methods I

### Computer Science (3 credits)

CIS 20400, CS 34200, or any approved computer course

### Chemistry (19 credits)

CHM 11500/11600 General Chemistry I & II

\*Students not prepared for CHM 11500 must take CHM 10000 first.

CHM 25500/25501 Organic Chemistry and laboratory I

CHM 25600/25601 Organic Chemistry and laboratory II

CHM 33300 Biochemistry

### Physics (8 credits)

PHYS 22000/22100 General Physics I & II

### BIOLOGY

Required courses (24 credits)

BIOL 10100 Introductory Biology I

BIOL 10200 Introductory Biology II

BIOL 10700	Biol Freshman Experience
BIOL 24300	Introductory Cell Biology
BIOL 24400	Genetics
BIOL 24401	Genetics Laboratory
BIOL 31600	Basic Microbiology
BIOL 56100*	Immunology
<i>Electives (minimum 7 credits)</i>	
BIOL 53300*	Medical Microbiology
BIOL 53400*	Lab. in Medical Microbiology

\*Required

Additional biology courses at 30000 level or above, excluding BIOL 33000 and 33900.

Consult your advisor.

## Clinical Program

(32 CREDITS)

Successful completion of 12-month clinical program at an affiliated hospital (St. Margaret Mercy Healthcare Centers, North Campus, Hammond, IN; OSF Saint Francis Medical Center, Peoria, IL; Parkview Hospital, Inc., Ft. Wayne, IN; or Hines VA Hospital, Hines, IL).

*Note: Students must register for "Candidate Only" at Purdue Calumet at the beginning of the semester in which they expect to complete the B.S.*

## Pre dentistry Program

(90 CREDITS)

*In order to enter dental school the student must fulfill appropriate prerequisite course requirements and have completed at least 90 semester hours. The vast majority of students who are accepted to dental school do have a Bachelor's degree. Purdue University Calumet communicates with Indiana University School of Dentistry to stay updated on this school's admission requirements. However, it is up to the individual student to make sure that his/her program satisfies the admission requirements for any dental school that he/she applies to. After completing the courses and 90 credit hours of undergraduate work, the student can apply to dental school. Currently, applications to IUPUI Dental School must be sent by Jan. 1st of the year the applicant plans to attend ([www.iusd.iupui.edu](http://www.iusd.iupui.edu)). Deadline dates change from year to year. For more information on dental schools and the application process, go to: [www.ada.org](http://www.ada.org). To apply, students must take the Dental Admission Test (DAT). Successful performance on the DAT requires completion of at least one year of college education, which should include courses in biology, and general and organic chemistry. Physics and advanced level biology are not required prior to taking the DAT. Most applicants complete two or more years of college prior to taking the examination.*

### Suggested Plan of Study

Pre-dentistry majors should take the same basic courses as those outlined for biology majors, with appropriate changes to complete all dental school prerequisites.

*Purdue University Calumet Courses that meet dental school prerequisites:*

BIOL 10100	Introduction to Biology I
BIOL 10200	Introduction to Biology II
BIOL 21300	Anatomy and Physiology
BIOL 21400	Anatomy and Physiology
CHM 11500	General Chemistry I
CHM 11600	General Chemistry II
CHM 25500	Organic Chemistry I
CHM 25501	Organic Chemistry Lab
CHM 33300	Biochemistry
PHYS 22000	General Physics I
PHYS 22100	General Physics II
ENGL 10400	English Composition I
ENGL 10500	English Composition II
PSY 12000	Introductory Psychology

## Premedicine Program

(90 CREDITS)

*In order to enter I.U. medical school the student must fulfill appropriate prerequisite course requirements and have completed 90 credits, although most applicants will matriculate with a B.A. or B.S. degree accredited by a U.S. or Canadian Institution. Purdue University Calumet communicates with Indiana University School of Medicine to stay updated on this school's admission requirements. However, it is up to the individual student to make sure that his/her program satisfies the admission requirements for any medical school that he/she applies to. After completing the courses and 90 credit hours of undergraduate work, you can apply to medical school. Deadline dates change from year to year. For more information on medical schools and the application process, go to <http://www.aamc.org> or for colleges of osteopathy, go to [www.aacom.org](http://www.aacom.org). In order to apply to medical school students must take the Medical College Admission Test (MCAT). This test is given on specified dates during the year. Applicants must register online at [www.aamc.org/MCAT](http://www.aamc.org/MCAT).*

### Suggested Plan of Study

Premedical majors should take the same basic courses as those outlined for biology majors, with appropriate changes to complete all medical school prerequisites. Purdue University Calumet Courses that meet medical school prerequisites:

BIOL 10100	Introduction to Biology I
BIOL 10200	Introduction to Biology II
CHM 11500	General Chemistry I
CHM 11600	General Chemistry II
CHM 25500	Organic Chemistry I
CHM 25501	Organic Chemistry Lab
CHM 25600	Organic Chemistry II
CHM 25601	Organic Chemistry Lab
PHYS 22000	General Physics I
PHYS 22100	General Physics II
ENGL 10400	English Composition I
ENGL 10500	English Composition II

### Recommended Premedicine Elective Courses

BIOL 21300	Human Anatomy and Physiology I
BIOL 21400	Human Anatomy and Physiology II
BIOL 35700	Animal Physiology
BIOL 34200	Biological Sciences Practicum (ExL)
BIOL 48800	Biological Sciences Internship (ExL)
BIOL 48900	Independent Student Research (ExL)
BIOL 50700	Molecular Biology
BIOL 52400	Microbiology
BIOL52500	Neurobiology
BIOL 53300/53400	Medical Microbiology/Lab
BIOL 56100	Immunology
BIOL 59500	Medical Genetics
BIOL 56600	Developmental Biology
BIOL 59500	Medical Genetics
	Directed Independent Research Project

## Preoccupational Therapy Program

(BACCALAUREATE DEGREE)

*Purdue University Calumet communicates with Indiana University School of Health and Rehabilitation Sciences to stay updated on this school's admission requirements. However, it is up to the individual student to make sure that his/her program satisfies the admission requirements for any Occupational Therapy (OT) school that he/she applies. You must have an undergraduate degree to apply to OT school. For more information on occupational therapy schools and profession, go to <http://www.aota.org/>.*

### Suggested Plan of Study

Prephysical Therapy majors should take the same basic courses as those outlined for biology majors, with appropriate changes to complete all OT prerequisites.

### MOT Prerequisites

Basic or Introductory Statistics	— 3 credits
English/Communication	— 6 credits

- Human Anatomy w/lab — minimum 4 credits
- Human Physiology w/lab — minimum 4 credits
- Abnormal Psychology — 3 credits
- Lifespan Human Development — 3 to 9 credits
- Humanities/Social Sciences — 3 credits in philosophy or sociology.
- Medication Terminology — 1 to 3 credits, strongly recommended.

ALL prerequisite coursework must be completed with a grade of 'C' or higher.

ALL prerequisite coursework must be completed with a grade of 'C' or higher.

### Criteria Used for Selection of Class:

Admission into the MOT program based on completed undergraduate degree, completed prerequisite courses, a minimum of twelve hours of observation and/or volunteer work in at least three (3) different occupational therapy settings (e.g. acute care hospital, outpatient, community mental health, school system, etc.) with either an occupational therapist or an occupational therapy assistant; a minimum cumulative grade point average (GPA) of 3.0 on a 4.0 scale; and participation in a group interview. (from [www.shrs.iupui.edu/occupational\\_therapy/](http://www.shrs.iupui.edu/occupational_therapy/))

## Preoptometry Program

(90 CREDITS, INCLUDING 20 CREDITS AT THE 30000-40000 LEVEL)

Purdue University Calumet communicates with the Indiana University School of Optometry to stay updated on this school's admission requirements. However, it is up to the individual student to make sure that his/her program satisfies the admission requirements for any school that he/she applies. After completing the required courses and 90 credit hours of undergraduate work, students can apply to optometry school. Of the 90 credit hours, at least 20 must be at the 30000-40000 level. If one chooses to apply after 90 credit hours, there are additional academic requirements that must be met. Students are responsible for understanding these additional requirements and making sure that individual programs cover the needed areas. The majority of applicants have an undergraduate degree. Shadowing an optometrist is recommended. In addition, students must take the Optometry College Admission Test (OAT). For more information on prerequisites go to: <http://www.opt.indiana.edu/>.

### Biology (13 credits)

- BIOL 10100 Introductory Biology I
- BIOL 31600 Basic Microbiology

### Chemistry (12 credits)

- CHM 11500/11600 General Chemistry
- \*Students not prepared for CHM 115 must take CHM 100 first.
- CHM 25500/25501 Organic Chemistry/Organic Chemistry Laboratory

### Physics (8 credits)

- PHYS 22000/22100 General Physics I/II

### Mathematics (9 credits)

- MA 22300/22400 Intro. Analysis I/II
- BIOL 33000 Biostatistics
- OR
- STAT 30100 Elementary Statistical Methods

### English (6 credits)

- ENGL 10400/10500 English Composition I/II

### Humanities and Social Science (15 credits)

- Two humanities courses (6 credits)
- Two social and historical studies electives (6 credits)
- Foreign Language (6 credits)
- May be exempt. Check with advisor. Strongly recommended
- PSY 12000 Intro. Psychology
- PHIL 11100 Ethics

### Electives

(24 credits; consult your advisor) Strongly recommended

- BIOL 21300/21400 Human Anatomy and Physiology I/II
- CHM 33300 Principles of Biochemistry

#### Recommended Biology Electives

- BIOL 24300 Introductory Cell Biology
- BIOL 24400 Genetics
- BIOL 24401 Genetics Laboratory

- BIOL 35700 Animal Physiology
- BIOL 34200 Biological Sciences Practicum (ExL)
- BIOL 48800 Biological Sciences Internship (ExL)
- BIOL 48900 Independent Student Research (ExL)
- BIOL 56600 Developmental Biology
- BIOL 59500 Neurobiology

#### Other Recommended Courses

- Small Business Management
- Medical Terminology
- Histology
- Ethics
- Independent Research

## Prepharmacy Program

These are required courses for those who expect to apply for admission to and graduate from the Purdue University College of Pharmacy Doctor of Pharmacy (Pharm.D.) program in West Lafayette, IN. Generally, a student needs a GPA of >3.00, and even >3.25 to be competitive. It is not to your advantage to repeat courses to improve your grade and GPA. Required Courses for fall 2012 admissions:

### Biology (24 credits)

- BIOL 10100/10200 Introductory Biology I/II
- BIOL 10700 Biol Freshman Experience
- BIOL 21300/21400 Human Anatomy and Physiology I/II
- BIOL 22100 Introduction to Microbiology
- OR
- BIOL 31600 Basic Microbiology
- BIOL 56100 Immunology

### Chemistry (19 credits)

- CHM 11500/11600 General Chemistry
- \*Students not prepared for CHM 11500 must take CHM 10000 first.
- CHM 25500/25501 Organic Chemistry I/ Organic Chemistry Laboratory
- CHM 25600/25601 Organic Chemistry II/ Organic Chemistry Laboratory
- CHM 33000 Principles of Biochemistry

### Physics (4 credits)

- PHYS 22000 General Physics I

### Mathematics (9 credits)

- MA 22300/22400 Intro. Analysis I/II
- STAT 30100 Elem. Statistical Methods I\*
- \*Biol 33000 (Biostatistics) may be substituted for STAT 30100

### English (3-6 credits)

- ENGL 10400/10500 English Comp. I/II
- OR
- ENGL 10800 Adv. Freshman Comp.
- (for qualified students instead of 104/105)

### Economic (3 credits)

- ECON 21000 Principles of Economics

## Prephysical Therapy Program

Purdue University Calumet communicates with Indiana University School of Health and Rehabilitation Sciences to stay updated on this school's admission requirements for the Doctor of Physical Therapy Program (DPT). However, it is up to the individual student to make sure that his/her program satisfies the admission requirements for any Physical Therapy (PT) school that he/she applies. Students must have an undergraduate degree to apply to PT school. Physical Therapy is a very competitive program (<http://www.apta.org>).

### Suggested Plan of Study

Prephysical Therapy majors should take the same basic courses as those outlined for biology majors, with appropriate changes to complete all PT prerequisites.

### PT Prerequisites

- General College Chemistry\* — 2 courses w/lab
- General College Physics\* — 2 courses w/lab

Human Anatomy w/lab — minimum 4 credits

*\*level of courses must be appropriate for science majors*

Human Physiology w/lab — minimum 4 credits

Introductory Psychology — 3 credits

Basic or Introductory Statistics — 3 credits

Lifespan Human Development — 3 to 9 credits

Humanities/Social Sciences — 6 credits;

*ALL prerequisite coursework must be completed with a grade of 'C' or higher.*

### Exposure to Physical Therapy

*In addition to prerequisite course work students must complete observational, volunteer or other work experiences in both hospital inpatient and outpatient physical therapy settings (minimum equivalent of one day, 8 hours) in order to appreciate the differences in physical therapists' responsibilities in each setting. Each experience must be of sufficient length of time to enable the supervising physical therapist to adequately complete the IU DPT Program's Generic Abilities Assessment Form included as part of the Application Portfolio. (from [www.shrs.iupui.edu/physical\\_therapy](http://www.shrs.iupui.edu/physical_therapy))*

*Recommended Courses*

Medical Terminology

Abnormal Psychology

Biomechanics/Kinesiology

Computer Literacy

*Criteria Used for Selection of Class: Minimum GPA of 3.2 and prerequisite GPA of 3.2.*

## Preveterinary Science and Medicine Program

(MINIMUM 75 CREDITS)

*The preveterinary science and medicine curriculum includes courses that are required for admission to the Doctor of Veterinary Medicine degree program offered by the Purdue University School of Veterinary Medicine. This program of study is coordinated by the College of Agriculture Office of Academic Programs in West Lafayette. The program emphasizes the biological and physical sciences that are foundations for successful study of veterinary medicine. Also, the curriculum includes courses in communication and the social sciences. Therefore, the courses in this curriculum may meet to the admission requirements of other veterinary schools; however students need to consult with the admission requirement of the veterinary school, which they intend to apply.*

### English (3-6 credits)

ENGL 10400/10500 English Comp. I/II

OR

ENGL 10800 Adv. Freshman Comp.

*(for qualified students instead of 10400/10500)*

### Communication (3 credits)

COM 11400 Fundamentals of Speech Communication

### Humanities

*(9 credits; 3 credits in each of foreign languages, cognitive science, and social science)*

### Mathematics (9 credits)

MA 22300/22400 Introductory Analysis I/II (calculus)\*

BIOL 33000 Biostatistics

OR

STAT 30100 Elementary Statistical Methods

*\*Students not prepared for MA 22300/22400 must take MA 15300/15400 (Algebra and Trigonometry I/II) first.*

### Physics (8 credits)

PHYS 22000/22100 General Physics I/II

### Chemistry (19 credits)

CHM 11500/11600 General Chemistry I/II\*

*\*Students not prepared for CHM 11500 must take CHM 10000 first.*

CHM 25500/25501 Organic Chemistry/Laboratory I

CHM 25600/25601 Organic Chemistry/Laboratory II

CHM 33300 Biochemistry

### Animal Science (3 credits)

ANSC 22100 Principles of Animal Nutrition

### Biology (21 credits)

BIOL 10100/10200 Introductory Biology I/II

BIOL 10700 Freshmen Experience in Biological Sciences

BIOL 24300 Introduction to Cell Biology

BIOL 24400/24401 Genetics/Laboratory

BIOL 31600 Basic Microbiology

OR

BIOL 22100 Introduction to Microbiology

### Recommended Electives (0-24 credits)

BIOL 33300 Ecology

BIOL 35700 Animal Physiology

BIOL 38300 Conservation Biology

BIOL 34200 Biological Sciences Practicum (ExL)

BIOL 48800 Biological Sciences Internship (ExL)

BIOL 48900 Independent Student Research (ExL)

BIOL 50700 Molecular Biology

BIOL 50800 DNA Recombinant Technique

BIOL 52400 Microbiology

BIOL 52500 Neurobiology

BIOL 53300/53400 Medical Microbiology & Laboratory

BIOL 56100 Immunology

BIOL 56600 Developmental Biology

BIOL 58000 Evolution

BIOL 59300 Ethology

BIOL 49500/59500 Special Assignments\*

ENGL 22000 Technical Report Writing

ENGL 42000 Business Writing

PHIL 32400 Ethics for the Professions

*\*Repeatable for credits. Topics may include, but are not limited to endocrinology, food microbiology, medical genetics, medical physiology, ornithology, and special assignments. Consult your advisor.*

## General Agriculture Transfer Program

(60 CREDITS)

*More than 40 programs are offered by the School of Agriculture, Purdue University West Lafayette.*

*Calumet students may complete one-two years of study in these programs by taking coursework offered through the Department of Biological Sciences at Purdue University Calumet. Students can then transfer to the West Lafayette campus to complete a bachelor's degree. Requirements vary in different agriculture options. See advisor for further details. The following is a sample program.*

### English Composition (3-6 credits)

ENGL 10400/10500 English Composition I & II

OR

ENGL 10800 Accelerated First-Year Composition

### Communication (3 credits)

COM 114 Fundamentals of Speech Communication

### Mathematics (9 credits)

MA 22300/22400 Calculus I & II

BIOL 33000 Biostatistics

OR

STAT 30100 Elementary Statistical Methods I

### Chemistry (8 credits)

CHM 11500/11600 General Chemistry I & II

*\*Students not prepared for CHM 11500 must take CHM 10000 first.*

### Biology (9 credits)

*Required courses (9 credits)*

BIOL 10100 Introductory Biology I

BIOL 10200 Introductory Biology II

BIOL 10700 Biol Freshman Experience

BIOL 33300 Ecology

### Electives (25 credits)

Consult your advisor.

## Preforestry Transfer Program

(60 CREDITS)

Students may qualify for admission to the Department of Forestry and Natural Resources, School of Agriculture, at Purdue University West Lafayette by completing two years of courses offered through the Department of Biological Sciences at Purdue University Calumet.

### English Composition (3-6 credits)

ENGL 10400/10500 English Composition I & II

OR

ENGL 10800 Accelerated First-Year Composition

### Communication (3 credits)

COM 11400 Fundamentals of Speech Communication

### Mathematics (9 credits)

MA 22300/22400 Calculus I & II

BIOL 33000 Biostatistics

Or STAT 30100 Elementary Statistical Methods I

### Chemistry (8 credits)

CHM 11500/11600 General Chemistry I & II

*\*Students not prepared for CHM 11500 must take CHM 10000 first.*

### Biology (13 credits)

BIOL 10100 Introductory Biology I

BIOL 10200 Introductory Biology II

BIOL 10700 Biol Freshman Experience

BIOL 33300 Ecology

### Electives (17-20 credits)

*Consult your advisor*

## Minor in Biotechnology

(23 CREDITS)

*Biotechnology is the science of the 21st century. The biotechnology minor is available to non-biology majors who wish to gain basic knowledge and skills in this field.*

BIOL 10100 Introductory Biology\*

CHM 11500/11600 General Chemistry

BIOL 24300 Cell Biology

Or

BIOL 31600 Basic Microbiology\*

BIOL 24400 Genetics

BIOL 24401 Genetics Lab

BIOL 50800 Recombinant DNA Techniques\*\*

*\*The Biology 10200 requirement which is necessary for majors will be waived for the minor.*

*\*\*BIOL 24300 or BIOL 31600 and BIOL 24400 and BIOL 24401 will prepare students for BIOL 50800.*

## Minor in Environmental Science

(18 CREDITS)\* PROGRAM COORDINATOR: PROF. YOUNG D. CHOI

*Environmental Science is an interdisciplinary study that uses information and knowledge from life sciences (such as biology), physical sciences (e.g., chemistry, geology, and physics), and social sciences (e.g., economics, politics, and ethics) to learn how the Earth's environment works, how our environment affect us, how we affect our environment, and how to deal with the environmental challenges we face. Although the Program is housed in the School of Engineering, Mathematics and Science, it is open to all Purdue Calumet students. Any Purdue Calumet student may become an environmental science minor by submitting a completed Student Curriculum Update/Change form (indicating the minor code KSE) to the Registrar. The Program aims to provide students with opportunities for gaining (1) a knowledge of the natural environment and how it is influenced by human society along with critical thinking skills, (2) exposure to modern and traditional technology in environmental subjects, and (3) "real world" experience through an internship or capstone project. The Program's curriculum consists of 18 credits (6 credits in core courses and 12 credits in elective courses) as listed below. A majority of the 18 credits can be fulfilled by the courses that are taken for general education requirements, the student's major requirements, and elective courses. Therefore, it is possible to complete the Environmental Science Minor curriculum with no or very few additional courses beyond the graduation requirement of the student's major.*

### Core Courses (6 credits)

SCI 20200 Environmental Science – 3 credits

SCI 49XXX Environmental Science Internship

OR

Senior/capstone/research project with an environmental emphasis in the student's major (3 credits)A

### Elective Courses (12 credits; must include a minimum of 6 credits from outside of the student's major)

BIOL 21000 Field Biology

BIOL 33300 Ecology

BIOL 38300 Conservation Biology\*

BIOL 58700 Biogeography\*

BIOL 58000 Evolution

BIOL 58800 Plant Ecology\*

BIOL 58900 Laboratory in Plan Ecology\*

BIOL 59100 Field Ecology\*

CE 20100 Surveying & GIS\*

CE 35400 Introduction to Environmental Engineering

CHM 32400 Environmental Chemistry\*

EAS 22000 Physical Geography

EAS 22300 Ocean Studies

EAS 22400 Weather Studies

ECON 31100 Environmental Economics\*

HIST 56200 Environmentalism in United States History\*

POL 22300 Environmental Policy

POL 52200 Energy, Politics, and Public Policy\*

POL 52300 Environmental Politics and Public Policy\*

SCI 10300 Survey of the Biological World

SCI 10400 Introduction to Environmental Biology

SCI 13100 Science & Environment

SCI 31500 Environmental Science for Elementary Education

*Any course on the subject of the environment, upon approval of the program coordinator*

*\*These courses have prerequisites.*

## Master of Science in Biology

(30 CREDITS)

## Master of Science in Biology Teaching

(30 CREDITS)

Special Admission Requirements: Graduate Record Examination (GRE) scores.

### Degree Requirements

#### Plan of Study

A plan of study should be submitted to the Graduate School shortly after acceptance into the program. A Graduate Advisory Committee will work closely with the student to design a program suited to the student's needs.

#### Options

##### Non-Thesis Option

Twenty-nine credits in formal courses and special assignments (independent study, research and reading) and one credit in seminar. The special assignment credits (independent study, research and reading) cannot exceed six; and the reading credits cannot exceed three. Of the total of thirty credits, twenty-one credits must in the primary area of biology at 50000 and 60000 levels and 9 credits in supporting areas. The supporting areas include biology (outside of the primary area), statistics, computer science, mathematics, chemistry, and physics. Up to six credits can be taken from 40000-level formal courses as a part of the supporting area requirement. For biology teaching, the secondary area should be education. Students exercising this option must pass a written comprehensive exam for the degree.

## Thesis Option

Twenty-one credits in formal courses, one credit in seminar, and eight credits in thesis research. Up to three credits of thesis research can be substituted by special assignment (independent study, research and reading). Of the total of thirty credits, twenty-one credits must be in the primary area of biology at 50000 and 60000 levels and nine credits in supporting areas. The supporting areas include biology (outside of the primary area), statistics, computer science, mathematics, chemistry, and physics. Up to six credits can be taken from 40000-level formal courses as a part of the supporting area requirement. Students exercising this option must submit a formal research proposal, conduct the research, write a thesis, and pass an oral defense before a faculty committee.

## Required Cumulative Index

GPA of 3.0 or higher. A grade of "B" or better is required in all courses in the primary area. The degree must be completed in 10 semesters within 5 years.

## Transfer of Credit

A maximum of 9 credits taken from other accredited institutions completed within 10 years prior to completion of degree program may be accepted for supporting area. Only credit hours associated with graduate courses for which grades of B or better were obtained will be eligible for transfer. Check with the Purdue University Graduate School website ([www.gradschool.purdue.edu/downloads/facstaff/2004PP.pdf](http://www.gradschool.purdue.edu/downloads/facstaff/2004PP.pdf)) for details.

## Combined Bachelor of Science and Master of Science Degree Program in Biological Sciences

Students graduating from this combined program will receive both the Bachelor of Science and Master of Science degrees in Biological Sciences in five years, as compared to the six years needed to complete the degrees separately. This is accomplished by offering a supervised and seamless transition from the Bachelor of Science curriculum to the Master of Science curriculum that is designed to better enable our graduates to prepare for competitive positions in today's job market and/or admission to doctoral level graduate or professional schools.

## Degree Requirements

Students may apply for admission to the program in their third year and will be carefully evaluated to ensure that they meet all university graduation requirements, including the completion of at least 32 credit hours at the 30000-level or above, for a Bachelor of Science degree. The Bachelor of Science/Master of Science combined curriculum consists of all required courses for the Bachelor of Science in Biological Sciences, including the biology core courses (18 credits), two of three biology elective core courses (8 credits), biology electives (a minimum of 12 credits of 30000 level or above), as well as all of the current graduate course requirements of the traditional Master's program.

The requirements for admission to the combined program are more stringent than the admission standards for the traditional Master of Science program. Students are required to maintain a minimum 3.25 GPA for the first 80 credit hours of course work and a grade of B or higher in all biology basic core courses in the plan of study, in order to be conditionally admitted. Final admission to the graduate program requires that the student has a minimum 3.25 overall GPA, a minimum 3.25 GPA in all biology basic core courses, and receives a B or higher grade in each of the graduate courses taken during his/her senior year. However, the application requirement of the traditional Master of Science program to take the GRE is waived.

The total credit hours required for this combined degree program will be 145 for those students awarded both Bachelor of Science and Master of Science degrees. The traditional Bachelor of Science in Biological Sciences requires 124 hours and the Master of Science in Biological Sciences requires 30 hours, for a total of 154 hours. The combined program allows an overlap of 9 credit hours, thereby reducing the number of required hours to 145 and making it possible for qualified students to complete both degrees in five years. The graduate portion of the combined program offers both thesis and non-thesis options. The combined program allows students the option of receiving both degrees together, upon completion of the combined curriculum, or to receive the Bachelor of Science degree first upon

completion of the undergraduate curriculum and the Master of Science degree later upon completion of the graduate plan of study. Students can choose to leave the combined program during the graduate portion of their study and still be eligible to receive the Bachelor of Science degree.

## Graduate Biotechnology Certificate

(16 CREDIT HOURS)

The Graduate Certificate in Biotechnology is offered to students with a bachelor's degree who wish to obtain advanced training in areas of biology that pertain to biotechnology. The certificate program is open to new students as well as students currently enrolled in a Master of Science degree program. Students who enter this program may have a variety of interests, including biochemistry, bioengineering, microbiology, molecular biology, cell biology, developmental biology, or molecular evolution. Students who are enrolled in the M.S. degree program are also eligible for receiving the Certificate upon request and completion of the course work.

Since biotechnology is a very broad field covering a wide variety of major growth sectors, such as medicine (therapeutics and diagnostics), agriculture (crop and livestock improvement), food (processing and specialty chemicals), and bioremediation (waste and contaminants disposal), students who complete the Certificate program will have opportunities to pursue their career in any of the subfields. Regardless of the students' eventual career goals, the expected outcomes of this program are to prepare all students with the fundamental knowledge of molecular biology and its techniques that are essential for employment or advanced studies related to biotechnology. Therefore the requirements of Molecular Biology and Recombinant DNA Techniques are necessary.

Students completing the required courses will then be able to pursue additional training in their areas of interests. For example, those who are interested in molecular biology may take courses in Bioinformatics and Research in Molecular Biology. Those who are interested in clinical genetics may take Medical Genetics and Human Cytogenetics Technology, and those who are interested in microbiology may take Food Microbiology, Medical Microbiology, and Environmental Microbiology.

## Certificate Requirements

A Plan of Study for the Graduate Biotechnology Certificate Program (GS Form 6) must be completed and approved by the Advisory Committee and the Graduate Coordinator one semester prior to the completion of the certificate program.

## Required courses (6 credits):

BIOL 50700	Molecular Biology (3)
BIOL 50800	Recombinant DNA Techniques (3)

## Elective courses (a minimum of 10 credits)

BIOL 59500	Environmental Microbiology (3)
BIOL 59500	Medical Genetics (3)
BIOL 59500	Human Cytogenetics Technology (4)
BIOL 56600	Developmental Biology (4)
BIOL 52500	Neurobiology (4)
BIOL 56100	Immunology (3)
BIOL 59500	Bioinformatics (3)
BIOL 53300/53400	Medical Microbiology (5)
BIOL 59500	Food Microbiology (4)
BIOL 59500	Research (variable credits)

# Department of Chemistry and Physics

**S. Slavin, Head.** *Faculty:* L. Coduti; A. Katti; M. O. Longas; R. Napora; J. Pan; N. Parashar; L. S. W. Pelter; M. W. Pelter; H. W. Pinnick; A. Rengstorf; K. L. Rowberg; G. Wolf, *Emeritus Faculty:* J. R. Albright; A. H. Carlson; R. R. Fryer; L. C. Gibson; P. D. Gupta; S. K. Gupta; H. R. Heydegger; G. R. Mitchell; . K. Nelson; J. R. Phillips; T. J. Phillips; F. Susienka; M. Svonavec; N. D. Yaney

The Department of Chemistry and Physics offers degree programs in Chemistry and in Physics. All of these programs include courses with a significant experiential component.

**Bachelor of Science in Chemistry degree — Premedical and Chemistry options.** The latter degree option is accredited by the American Chemical Society. Graduation with this degree meets the eligibility requirements for membership in the American Chemical Society. This program provides a thorough training in the fundamental principles and basic experimental techniques of chemistry. The Chemistry option is recommended for students who will continue to study or work in chemistry or the natural sciences. The Premedical Option is appropriate for those who will pursue professional study in health-related areas like medicine or pharmacy.

**Bachelor of Science degree, Chemistry Teaching, Physics Teaching, or Physical Science Teaching.** These programs are offered in cooperation with the School of Education, intended for those wishing certification to teach the physical sciences at the secondary level in Indiana. These programs provide students with a good background in chemistry and physics as well as those education courses which meet the standards mandated by the Indiana Professional Standards Board.

**Bachelor of Science degree in Physics, with Options in Physics, Engineering Physics and Computational Physics.** These degree options provide strong preparation for those intending to pursue professional careers in physics and related areas. All the options provide a strong background in physics. The General Physics option provides students with an exposure to other sciences; the Engineering Physics option augments students' physics training with a minor in Electrical Engineering; the Computational Physics option provides students with a minor in Computer Science in addition to their physics education.

## Research Opportunities in Chemistry

In addition to the Cooperative education described below, students may get experience in laboratory procedures and scientific research by working on research projects directed by the chemistry faculty. Areas of research include the biochemistry of complex carbohydrates of the skin, nanotechnology, environmental studies, molecular electronics, organometallics, analytical chemistry, materials science, polymer chemistry, drug design, physical biochemistry, synthetic and theoretical organic chemistry. Chemistry students are encouraged to talk with faculty about research opportunities. Student projects often are funded by the University's Undergraduate Research Program.

The Department sponsors a Student Affiliate Chapter of the American Chemical Society, which hosts seminars, lectures, and other special events. Cooperative education, often in the form of internships sponsored by regional industrial companies, is also available for qualified students. In this program, students have the opportunity to combine learning with on-the-job training.

## Research Opportunities in Physics

Many physics students participate in research projects directed by physics faculty including both experimental and theoretical topics. Several students have continued their research at national research labs, such as Argonne and Fermilab in nearby Illinois. The physics faculty has research interests in high energy physics, astronomy, astrophysics, and several areas of theoretical physics. Physics students are encouraged to talk with faculty about research opportunities. Student projects often are funded by the University's Undergraduate Research Program.

Cooperative education, often in the form of internships sponsored by regional industrial companies, is also available for qualified students. In this program, students have the opportunity to combine learning with on-the-job training.

The Society of Physics Students has an active student chapter sponsored by the Department. A physics seminar provides students with a window on current research in physics and physics applications.

## Programs

- Bachelor of Science in Chemistry, Chemistry Option (124 credits)
- Bachelor of Science in Chemistry, Premedical Option (124 credits)
- Bachelor of Science, Physics Teaching Option (128 credits)
- Bachelor of Science, Chemistry Teaching Option (128 credits)
- Bachelor of Science, Physics, with options in Physics, Engineering Physics, and Computational Physics (124 credits)
- Bachelor of Science, Physical Science Teaching Option (128 credits)
- Minor in Astrophysics (18 credits)
- Minor in Chemistry (24 credits)
- Minor in Physics (18 credits)

## Bachelor of Science in Chemistry: Chemistry Option

(124 CREDITS)

*General Requirements for all Chemistry degrees:*

### 1. English and Communication

- ENGL 10400 English Comp. I (Grade of A) **AND** English elective  
**OR**  
ENGL 10400 English Comp. I/II  
/ 10500  
COM 11400 Fundamentals of Speech Communication

### 2. Science and Mathematics

- A. Science** (*Chemistry: 44 credits; Physics: 9 credits*)  
CHM 11500 General Chemistry I

- CHM 11600 General Chemistry II  
CHM 19400 Freshman Chemistry Orientation  
CHM 24100 Introductory Inorganic Chemistry  
CHM 25501 Organic Chem. Lab. I  
CHM 25601 Organic Chem. Lab. II  
CHM 26100 Organic Chemistry I  
CHM 26200 Organic Chemistry II  
CHM 26600 Organic Chem. Laboratory  
CHM 29400 Sophomore Chem. Seminar  
CHM 32100 Analytical Chem. I  
CHM 33300 Biochemistry  
CHM 37300 Physical Chem. I  
CHM 37400 Physical Chem. II

CHM 37600	Physical Chem. Lab.
CHM 42400	Analytical Chem. II
CHM 49400	Junior-Senior Chemistry Seminar
PHYS 15200	Mechanics
PHYS 25100	Heat, Electricity, and Optics

**B. Math (14 credits)**

MA 16300	Integrated Calculus and Geom. I
MA 16400	Integrated Calculus and Geom. II
MA 26100	Multivariate Calculus

**3. Humanities and Social Sciences (18 credits)**

*A two-course sequence from group A or group B, two courses from the other group, and any two other courses from A or B:*

- A. Literature, History, Philosophy, Foreign Languages, Art, Music, Theater
- B. Anthropology, Psychology, Sociology Political Science, Economics

**4. Free Electives (30 credits)**

*Students are encouraged to include as many chemistry electives, especially special assignments (research), as possible:*

CHM 21500	Laboratory Health and Safety
CHM 31800	Biomolecular NMR Spectroscopy/Magnetic Resonance Imaging
CHM 32400	Environmental Chemistry
CHM 34200	Inorganic Chemistry
CHM 34300	Inorganic Chemistry Lab.
CHM 44400	Cosmochemistry
CHM 49900	Special Assignments/Research
CHM 51300	Chemical Literature
CHM 53300	Introductory Biochemistry I
CHM 53400	Introductory Biochemistry II
CHM 53500	Introductory Biochem. Lab.
CHM 54800	Radiochemistry
CHM 54900	Radiochemistry Lab.
CHM 56100	Organic Chemistry
CHM 56200	Industrial Organic Chemistry
CHM 56300	Organic Chemistry
CHM 56400	Introduction to Polymer Chemistry
CHM 59900	Special Assignments

**Bachelor of Science in Chemistry: Premedical Option**

(124 CREDITS)

**1. English and Communication**

ENGL 10400	English Comp. I (Grade of A) <b>AND</b> English elective
<b>OR</b>	
ENGL 10400 / 10500	English Comp. I/II
COM 11400	Fundamentals of Speech Communication

**2. Science and Mathematics**

**A. Science** (Chemistry: 36 credits; Physics: 8 or 9 credits; Biology: 16 or more)

CHM 11500	General Chemistry I
CHM 11600	General Chemistry II
CHM 19400	Freshman Chemistry Orientation
CHM 24100	Introductory Inorganic Chemistry
CHM 25501	Organic Chem. Lab. I
CHM 25601	Organic Chem. Lab. II
CHM 26100	Organic Chemistry I
CHM 26200	Organic Chemistry II
CHM 27300	Introductory Physical Chemistry

CHM 29400	Sophomore Chem. Seminar
CHM 32100	Analytical Chem. I
CHM 33300	Biochemistry
CHM 49400	Junior-Senior Chemistry Seminar
CHM 49900	Special Assignments
BIOL 10100/10200	Introductory Biology <i>(Choose at least 16 credits of Biology)</i>
BIOL 21300/21400	Human Anatomy and Physiology I and II
BIOL 31600	Microbiology
BIOL 32000	Cell Biology
BIOL 32100	Cell Biology Lab.
BIOL 42900	Genetics Lab.
BIOL 43000	Genetics
PHYS 22000/22100	General Physics I and II
<b>OR</b>	
PHYS 15200	Mechanics
<b>AND</b>	
PHYS 25100	Heat, Electricity, and Optics

**B. Math (6 or 10 credits)**

MA 22300/22400	Introductory Analysis I and II
<b>OR</b>	
MA 163/164	Integrated Calculus and Geometry I and II

**3. Humanities and Social Sciences (18 credits)**

*A two-course sequence from group A or group B, two courses from the other group, and any two other courses from A or B:*

- A. Literature, History, Philosophy, Foreign Languages, Art, Music, Theater
- B. Anthropology, Psychology, Sociology, Political Science, Economics

**4. Free Electives (22-27 credits)**

*See list of suggested courses above.*

**Bachelor of Science: Physical Science Teaching Option**

(128 CREDITS)

**Chemistry (19 or 20 credits)**

CHM 11500	General Chemistry I
CHM 11600	General Chemistry II
CHM 25501	Organic Chemistry Laboratory I
CHM 25601	Organic Chemistry Laboratory II
CHM 26100	Organic Chemistry
CHM 26200	Organic Chemistry
CHM 32100	Analytical Chemistry I
<b>OR</b>	
CHM 32400	Environmental Chemistry

**Physics (13 credits)**

PHYS 15200	Mechanics
PHYS 25100	Heat, Electricity, and Optics
PHYS 34200	Modern Physics
PHYS 34300	Modern Physics Lab.

**Science (2 credits)**

SCI 22000	Health and Safety in the Physical Science Laboratory
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**Miscellaneous Science Courses (13 credits)**

CHM 19400 <b>OR</b> PHYS 19400	Freshman Orientation
<i>ASTR 26300, 26400, (choose two) 26500, 36300, 36400</i>	
BIOL 10100	Introductory Biology
EAS 11000 <b>OR</b> 22000	Geology or Physical Geography

**Mathematics (17 credits)**

- MA 16300 Integrated Calculus and Analytic Geometry I  
 MA 16400 Integrated Calculus and Analytic Geometry II  
 MA 26100 Multivariate Calculus  
 MA 26400 Differential Equations

**Social Sciences (3 credits)**

- PSY 36200 Human Development II: Adolescence

**English (6 credits)**

- ENGL 10400 English Composition I  
 ENGL 10500 English Composition II

**Communications (3 credits)**

- COM 11400 Fundamentals of Speech Communication

**Humanities (6 credits)**

- HIST 33400 Science and Technology in Western Civilization II  
 POL 30400 Technology and Society

**Education (42 credits)**

- EDCI 20500 Exploring Teaching as a Career  
 EDCI 26000 Introduction to Computers in Education  
 EDPS 22000 Psychology of Learning  
 EDPS 26000 Introduction to Special Education  
 EDCI 28500 Multiculturalism and Education  
 EDCI 30900 Reading in the Middle and Secondary School  
 EDCI 32000 Principles of Practice in Elementary & Secondary Schools  
 EDCI 34600 Strategies of Science Instruction in the Senior High School  
 EDCI 35500 Teaching and Learning in the K-12 Classroom  
 EDPS 37000 Teaching Students w/Diverse Needs in the K-12 Classroom  
 EDCI 48900/49700 Student Teaching

**Electives (as needed)****Bachelor of Science:  
Chemistry Teaching Option**

(128 CREDITS)

**Chemistry (27-29 credits)**

- CHM 11500 General Chemistry I  
 CHM 11600 General Chemistry II  
 CHM 19400 Freshman Chemistry Orientation  
 CHM 25501 Organic Chemistry Laboratory I  
 CHM 25601 Organic Chemistry Laboratory II  
 CHM 26100 Organic Chemistry  
 CHM 26200 Organic Chemistry  
 CHM 27300 Physical Chemistry  
 CHM 32100 Analytical Chemistry I  
 CHM 32400 Environmental Chemistry  
**OR**  
 CHM 42400 Analytical Chemistry II

**Physics (13 credits)**

- PHYS 15200 Mechanics  
 PHYS 26100 Heat, Electricity, and Optics  
 PHYS 34200 Modern Physics

**Miscellaneous Science Courses (12 credits)**

- ASTR 26300, 26400, (choose one)  
 26500, 36300, 36400  
 BIOL 10100 Introductory Biology  
 EAS 11000 **OR** 22000 Geology or Physical Geography  
 SCI 220 Health and Safety in the Physical Science Laboratory

**Mathematics (10 credits)**

- MA 16300/16400 Integrated Calculus and Analytic Geometry I and II

**Social Sciences (3 credits)**

- PSY 36200 Human Development II: Adolescence

**English (6 credits)**

- ENGL 10400 English Composition I  
 ENGL 10500 English Composition II

**Communications (3 credits)**

- COM 11400 Fundamentals of Speech Communication

**Humanities (6 credits)**

- HIST 33400 Science and Technology in Western Civilization II  
 POL 30400 Technology and Society

**Education (42 credits)** (See page 41 for more info)

- EDCI 20600 Introduction to Teaching  
 EDCI 26000 Introduction to Computers in Education  
 EDPS 22000 Psychology of Learning  
 EDPS 26000 Introduction to Special Education  
 EDCI 28500 Multiculturalism and Education  
 EDCI 30900 Reading in the Middle and Secondary School  
 EDCI 32000 Principles of Practice in Elementary & Secondary Schools  
 EDCI 34600 Strategies of Science Instruction in the Senior High School  
 EDCI 35500 Teaching and Learning in the K-12 Classroom  
 EDPS 37000 Teaching Students w/Diverse Needs in the K-12 Classroom  
 EDCI 48900/49700 Student Teaching

**Electives (as needed, 9 minimum)****Bachelor of Science: Physics Teaching Option**

(128 CREDITS)

**Chemistry (8 credits)**

- CHM 11500 General Chemistry I  
 CHM 11600 General Chemistry II

**Physics (28 credits)**

- PHYS 15200 Mechanics  
 PHYS 19400 Freshman Physics Orientation  
 PHYS 25100 Heat, Electricity, and Optics  
 PHYS 31000 Intermediate Mechanics  
 PHYS 31100 Quantum Physics  
 PHYS 32200 Intermediate Optics  
 PHYS 33000 Intermediate Electricity and Magnetism  
 PHYS 34200 Modern Physics  
 PHYS 34300 Modern Physics Lab

**Miscellaneous Science Courses (10 credits)**

- ASTR 26300, 26400, (choose one)  
 26500, 36300, 36400  
 BIOL 10100 Introductory Biology  
 EAS 11000 **OR** 22000 Geology or Physical Geography  
 SCI 22000 Health and Safety in the Physical Science Laboratory

**Mathematics (20 credits)**

- MA 16300 Integrated Calculus and Analytic Geometry I  
 MA 16400 Integrated Calculus and Analytic Geometry II  
 MA 26100 Multivariate Calculus  
 MA 26400 Differential Equations  
 MA 26500 Linear Algebra

**Communication & English Composition (9 credits)**

- COM 11400 Fundamentals of Speech Communication

Plus one of the following three options:

- ENGL 10400/10500 English Comp. I/II  
 ENGL 10300 **OR** 10800 A dv. Freshman Comp. **AND** a writing-intensive course approved by the student's academic advisor (with a grade of A) **AND** a writing-intensive course approved by the student's academic advisor  
 ENGL 10400

**Communications (3 credits)**

COM 11400 Fundamentals of Speech Communication

**Humanities (6 credits)**

HIST 33400 Science and Technology in Western Civilization II

POL 30400 Technology and Society

**Education (36 credits)**

EDFA 20000 History &amp; Philosophy of Education

EDPS 22000 Psychology of Learning

EDPS 26000 Introduction to Special Education

EDPS 36600 Use of Assessment in the Classroom

EDCI 32300 Education Technology for Teaching &amp; Learning

EDCI 34600 Strategies of Science Instruction in the Senior High School

EDCI 35500 Teaching and Learning in the K Classroom

EDPS 37000 Teaching Students w/Diverse Needs in the K-12 Classroom

EDCI 48900/49700 Student Teaching

**Electives (as needed)****Chemistry Minor Option**

(24 CREDITS)

**1. Chemistry Core:**CHM 11500 **AND** General Chemistry I & II

CHM 11600

**2. Chemistry Electives:***A minimum of sixteen credit hours of chemistry courses beyond general chemistry is required.**These credit hours must include both lecture and laboratory courses chosen from two or more areas of chemistry: analytical, biochemistry, inorganic, organic, and physical. Advanced special topic courses and up to 3 credits of CHM 49900 (undergraduate research) may also be used to fulfill this requirement Bachelor of Science.***Physics Major Option**

(124 CREDITS)

**1. Communication & English Composition (9 credits)**

COM 11400 Fundamentals of Speech Communication

*Plus one of the following three options:*

ENGL 10400/10500 English Comp. I/II

ENGL 10300 **OR** 10800 Adv. Freshman Comp. **AND** a writing-intensive course approved by the student's academic advisorENGL 10400 (with a grade of A) **AND** a writing-intensive course approved by the student's academic advisor**2. Humanities and Social Sciences (18 credits)***A two-course sequence from group A or group B, two courses from the other group, and any two other courses from A and B:*

A. Literature, History, Philosophy, Foreign Languages, Art, Music, Theater

B. Anthropology, Psychology, Sociology, Political Science, Economics

**3. Mathematics & Computer Science (29 credits)**

MA 16300 Integ. Calculus and Geom. I

MA 16400 Integ. Calculus and Geom. II

MA 26100 Multivariate Calculus

MA 26400 Differential Equations

MA 26500 Linear Algebra

CS 12300 Programming I: Java

CS 12400 Programming II: C++

*Math Elective recommended choices:*

MA 31200 Probability

MA 31500 Introductory Abstract Mathematics

MA 34800 Discrete Mathematics

MA 47200 Introductory Applied Mathematics

**4. Physics (35 credits)**

PHYS 15200 Mechanics

PHYS 19400 Freshman Physics Orientation

PHYS 25100 Heat, Electricity and Optics

PHYS 29400 Sophomore Physics Seminar

PHYS 31000 Intermediate Mechanics

PHYS 31100 Quantum Physics I

PHYS 32200 Intermediate Optics

PHYS 33000 Intermediate Elect. Magnet.

PHYS 34200 Modern Physics

PHYS 34300 Modern Physics Lab.

PHYS 38000 Advanced Lab

PHYS 49400 Junior-Senior Physics Seminar

PHYS 51500 Thermodynamics

**5. Chemistry (8 credits)**

CHM 11500 General Chemistry I

CHM 11600 General Chemistry II

**6. Electives (17-19 credits)***Recommended:*

PHYS 30500 Intermediate Math Physics

PHYS 41200 Quantum Physics

ASTR 36300 Intermediate Astronomy I

ASTR 36400 Intermediate Astronomy II

**Bachelor of Science in Physics:  
Computational Physics Option**

(127 CREDITS)

**1. Communication and English Composition (9 credits)**

COM 11400 Fundamentals of Speech Communication

*Plus one of the following three options:*

ENGL 10400/10500 English Comp. I/II

ENGL 10300 **OR** 10800 Adv. Freshman Comp. **AND** a writing-intensive course approved by the student's academic advisorENGL 10400 (with a grade of A) **AND** a writing-intensive course approved by the student's academic advisor**2. Humanities and Social Sciences (18 credits)***A two-course sequence from group A or group B, two courses from the other group, and any two other courses from A and B:*

A. Literature, History, Philosophy, Foreign Languages, Art, Music, Theater

B. Anthropology, Psychology, Sociology, Political Science, Economics

**3. Mathematics (26 credits)**

MA 16300 Integ. Calculus and Geom. I

MA 16400 Integ. Calculus and Geom. II

MA 26100 Multivariate Calculus

MA 26400 Differential Equations

MA 26500 Linear Algebra

*Math Elective recommended choices:*

MA 31200 Probability

MA 31500 Introductory Abstract Mathematics

MA 34800 Discrete Mathematics

MA 47200 Introductory Applied Mathematics

**4. Computer Science (18 credits, satisfies the requirements for a CS minor)**

CS 12300 Programming I: Java

CS 12400 Programming II: C++

CS 22300 Computer Architecture and Assembly Language

CS 27500 Data Structures

CS 30200 Operating Systems

- CS 31600 Programming Languages  
**OR**  
 CS 33200 Algorithms  
**OR**  
 40000 level CS course

### 5. Physics (41 credits)

- PHYS 15200 Mechanics  
 PHYS 19400 Freshman Physics Orientation  
 PHYS 25100 Heat, Electricity and Optics  
 PHYS 29400 Sophomore Physics Seminar  
 PHYS 30800 Scientific Computation  
 PHYS 30900 Scientific Computation II  
 PHYS 31000 Intermediate Mechanics  
 PHYS 31100 Quantum Physics I  
 PHYS 32200 Intermediate Optics  
 PHYS 33000 Intermediate Elect. Magnet.  
 PHYS 34200 Modern Physics  
 PHYS 34300 Modern Physics Lab.  
 PHYS 38000 Advanced Lab  
 PHYS 49400 Junior-Senior Physics Seminar  
 PHYS 51500 Thermodynamics

### 6. Electives (15 credits)

*Recommended:*

- PHYS 30500 Intermediate Math Physics  
 PHYS 41200 Quantum Physics  
 ASTR 36300 Intermediate Astronomy I  
 ASTR 36400 Intermediate Astronomy II

## Physics Minor

(18 CREDITS)

*Required:*

- PHYS 15200 Mechanics  
 PHYS 25100 Heat, Electricity, and Optics  
 (or PHYS 26100 and one credit hour of supplemental laboratory work in PHYS 27000)  
 PHYS 34200 Modern Physics

*Electives:*

Six credit hours at the 30000 level or above from those Physics courses (or equivalent) which are not required for graduation in the student's major. (PHYS 50000 thru PHYS 50900, inclusive, are not available as such electives.)

## Astrophysics Minor

(24 CREDITS)

*Required:*

- PHYS 15200 Mechanics  
 PHYS 25100 Heat, Electricity and Optics  
 (or PHYS 26100 and one credit hour of PHYS 27000)  
 PHYS 34200 Modern Physics  
 ASTR 36300 Intermediate Astronomy I  
 ASTR 36400 Intermediate Astronomy II

## Bachelor of Science Physics: Engineering Physics Option

(124 CREDITS)

### 1. Communication & English Composition (9 credits)

- COM 11400 Fundamentals of Speech Communication

*Plus one of the following three options:*

- ENGL 10400/10500 English Comp. I/II  
 ENGL 10300 OR 10800 A dv. Freshman Comp. AND a writing intensive course approved by the student's academic advisor  
 ENGL 10400 (with a grade of A) AND a writing-intensive course approved by the student's academic advisor

### 2. Humanities and Social Sciences (18 credits)

*A two-course sequence from group A or group B, two courses from the other group, and any two other courses from A and B:*

- A . Literature, History, Philosophy, Foreign Languages, Art, Music, Theater  
 B. Anthropology, Psychology, Sociology, Political Science, Economics

### 3. Mathematics (26 credits)

- MA 16300 Integ. Calculus and Geom. I  
 MA 16400 Integ. Calculus and Geom. II  
 MA 26100 Multivariate Calculus  
 MA 26400 Differential Equations  
 MA 26500 Linear Algebra

*Math Elective recommended choices:*

- MA 31200 Probability  
 MA 31500 Introductory Abstract Mathematics  
 MA 34800 Discrete Mathematics  
 MA 47200 Introductory Applied Mathematics

### 4. Physics (35 credits)

- PHYS 15200 Mechanics  
 PHYS 19400 Freshman Physics Orientation  
 PHYS 25100 Heat, Electricity and Optics  
 PHYS 29400 Sophomore Physics Seminar  
 PHYS 31000 Intermediate Mechanics  
 PHYS 31100 Quantum Physics I  
 PHYS 32200 Oscillations and Waves  
 PHYS 33000 Intermediate Elect. Magnet.  
 PHYS 34200 Modern Physics  
 PHYS 34300 Modern Physics Lab.  
 PHYS 38000 Advanced Lab  
 PHYS 49400 Junior-Senior Physics Seminar  
 PHYS 51500 Thermodynamics

### 5. Chemistry (8 credits)

- CHM 11500 General Chemistry I  
 CHM 11600 General Chemistry II

### 6. Engineering/Electrical Engineering (18 credits)

- EE 20100 Linear Circuit Analysis I  
 EE 20200 Linear Circuit Analysis II  
 EE 20700 Elect. Measure. Techniques  
 EE 21800 Linear Circuits Lab. II  
 EE 27500 Electronics-Devices  
 EE 33500 Electronics-Systems  
 ENGR 23300 Microcomputers in Engineering

# Department of Electrical and Computer Engineering

**N. Houshangi, Head.** Faculty: M. Anan; C. Apostoia; B. G. Burrige (Emeritus); B. Chen; H. L. Gerber (Emeritus); R. L. Gonzales (Emeritus); K. Gopalan; D. L. Gray; T. I. Hentea (Emeritus); D. Kozel; E. S. Pierson; X. Yang; F. Azizi (Visiting); B. Smida (Visiting)

Electrical and computer engineers help to improve the quality of life, the productivity of industry and individuals, and the standard of living for everyone. Engineers are problem-solvers, using science, mathematics, and technology in their solutions. Most solutions involve thinking, computing, innovating, building, and teamwork with other professionals. Graduates from the bachelors or masters program may choose a career involving design, development, research, manufacturing, testing, or a combination of these. Electrical and computer engineering graduates are in great demand, and starting salaries are excellent.

The undergraduate curriculum leads to a Bachelor of Science in Computer Engineering, Electrical Engineering, or Electrical Engineering with a minor in Mechatronics. The first semester courses are the same for all engineering students, the first three semesters are the same for all electrical and computer engineering students. Then, students specialize in Computer or Electrical Engineering, both accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). An Interdisciplinary Engineering Option allows students to design their own programs to meet their career needs, such as pre-law or pre-medicine. The flexibility of the engineering program allows students interested in other engineering disciplines not offered at Purdue Calumet, such as aerospace, chemical, etc., to complete one to two years of study before transferring to another university.

The Purdue Calumet graduate engineering curriculum leads to a Master of Science in Engineering degree, and/or a Graduate Certificate in Engineering Project Management. Graduates of engineering or related programs are also welcome to take individual courses for professional development and technical currency without pursuing a graduate degree.

**Reasons to major in Electrical or Computer Engineering at Purdue University Calumet.** Engineering at Purdue Calumet provides an opportunity to earn an internationally-respected Purdue Engineering Degree from a program with excellent job placement and high starting salaries. Engineering classes are small and are taught by qualified faculty members dedicated to teaching or adjunct faculty who have many years of industrial experience. Most faculty members also engage in research, consulting, or other professional activities, and participate in professional engineering societies. Many faculty have received outstanding teaching, research, and service awards. The state-of-the-art laboratory facilities, along with the many laboratory courses, provide a mechanism for students to gain hands-on experience that will aid their understanding of the engineering and scientific theories taught in the lectures. Courses are provided both days and evenings on a publicized schedule to meet the needs of both full-time and part-time students. Incoming students are assigned to an advisor familiar with the problems and special needs of new students. After choosing a major, the student receives an experienced engineering faculty advisor. The programs prepare students for life and for the engineering profession. The electrical and computer engineering programs offer a cost-effective, quality program that was ranked among the top 50 of the Best Undergraduate Engineering Programs at Non-Doctoral Schools in the 2011 US News and World Report.

**Senior Engineering Design Projects.** A capstone, one-year project for all seniors provides the opportunity to work in multi-disciplinary teams to pursue an engineering idea from conception to design, fabrication, and testing. The senior projects provide a transition from university study to the real world of engineering work, building on Purdue Calumet's strength in experiential education. Many of the project ideas come from local industry. Special equipment available for senior design projects includes digital image processing systems, virtual reality software, a visualization and simulation lab, personal computers with an array of engineering software packages and data acquisition capability, programmable logic devices, digital signal processing boards, micro-controllers, high-frequency systems, electric drives and power electronics, and specialized electronic tools and software.

**Undergraduate Research, Professional Experience Programs and Cooperative Education.** Strong partnerships with industry and funded research provide great opportunities for undergraduate as well as graduate student research. The Professional Experience Program, internships, and other experiential learning programs provide opportunities for students to gain relevant work experience by part-time employment while attending school part-time, or by full-time employment. The Co-op program provides engineering students with the opportunity to work in the engineering profession while obtaining their degree. All provide students practical experience while earning money to pay for their education. These opportunities make the education more meaningful for students and make the students more attractive to employers when they graduate, thus improving employment opportunities.

**Graduate Internship in Engineering.** The Graduate Internship program allows students who have been accepted into the Master of Science in Engineering program to work part-time in the engineering profession while attending the University and working toward a degree. Students will have the opportunity to compile a portfolio of their experience.

## Programs

- Bachelor of Science in Electrical Engineering\*
- Bachelor of Science in Electrical Engineering with a minor in Mechatronics\*\*
- Bachelor of Science in Computer Engineering\*
- Bachelor of Science in Engineering, Interdisciplinary Engineering Option
- Master of Science in Engineering
- Master of Science in Engineering with ECE Specialization
- Graduate Certificate in Engineering Project Management

\*Accredited by the Engineering Accreditation Commission of ABET (EAC-ABET)

\*\*Accredited as a subset of Electrical Engineering.

## Computer and Electrical Engineering Program Educational Objectives

The Computer Engineering curriculum provides a broad education in the fundamentals of Computer Engineering. Students may pursue a general program or may choose a specialization in areas such as Computer Hardware or Computer Software.

The Electrical Engineering curriculum provides a broad education in the fundamentals of Electrical Engineering. Students may pursue a general program or may choose a specialization in areas such as Communication and Signal Processing, Computer Systems, Control Systems, or Power and Energy systems. There is a minor in mechatronics.

*The educational objectives are to provide each graduate with:*

1. **Engineering Competence** – Graduates are competent and engaged professionals in their field.
2. **Continuous Learning Skills** – Graduates continue developing professionally.
3. **Professional Skills** – Graduates demonstrate teamwork and leadership skills, and are contributors in their profession.
4. **Societal Awareness** – Graduates recognize the societal, ethical, and global impacts of their work.

## Bachelor of Science in Electrical Engineering or Computer Engineering

### Special Admission Requirements.

Students must have adequate preparation in mathematics and chemistry to complete the freshman year in two semesters.

### Math

All new students must take a math placement exam. Students with no high school trigonometry or low placement score should take MA 15900.

### Chemistry

Students without one year of high school chemistry with an average grade of 'C' or better should take CHM 10000 prior to CHM 11500.

## Requirements common for Bachelor of Science in Computer Engineering or Electrical Engineering

### 1. English and Communication

ENGL 10400	English Composition I
COM 11400	Fundamentals of Speech
COM/ENGL 30700	Written and Oral Communication for Engineers

### 2. Science and Mathematics

CHM 11500	General Chemistry
PHYS 15200	Mechanics
PHYS 26100	Electricity Optics
MA 16300	Calculus and Analytic Geometry I
MA 16400	Calculus and Analytic Geometry II
MA 26100	Multivariate Calculus
MA 26400	Differential Equations
MA 26500	Linear Algebra

### 3. Humanities and Social Sciences (12 credits)

*Required*

PHIL 32400	Ethics for the Professions
POL 30500	Technology and Society

*The balance (6 credits) is selected by the student and advisor to give the student an opportunity to explore areas within the humanities and social sciences. Credit for ECON 21000 is not allowed. Subject areas not acceptable are skills courses such as writing and speaking, accounting, industrial management, personal finance, ROTC, and personnel administration. Credit is not allowed for a student's native language.*

### 4. General Engineering

ENGR 15100	Software Tools for Engineers
ECE 15200	Programming for Engineers
ENGR 18600	Engineering Freshman Seminar
ENGR 19000	Elementary Engineering Design
ECE 31200	Engineering Economics and Project Management
ECE 42900	Senior Engineering Design I
ECE 43900	Senior Engineering Design II

### 5. Electrical and Computer Engineering

ECE 20100	Linear Circuit Analysis I
ECE 20200	Linear Circuit Analysis II
ECE 20700	Electronic Measurement Techniques
ECE 21800	Linear Circuits Laboratory II
ECE 23300	Microcomputers in Engineering
ECE 27500	Analog and Digital Electronics
ECE 30100	Signals and Systems
ECE 30200	Probabilistic Methods in Electrical Engineering
ECE 31100	Electric and Magnetic Fields
ECE 37000	Digital Systems-Logic Design

In addition to the above requirements, the computer and electrical programs have their own required courses as listed below.

## Bachelor of Science in Computer Engineering

(127 CREDITS) EAC OF ABET ACCREDITED

*Requirements common for Bachelor of Science in Computer Engineering or Electrical Engineering plus:*

### 1. Electrical and Computer Engineering

ECE 25100	Object Oriented Programming
ECE 37100	Computer Organization & Design
ECE 44800	Introduction to Communication Theory

### 2. Computer Science

CS 27500	Data Structures
CS 30900	Discrete Mathematical Structures

### 3. Computer Engineering Electives

Five courses from a list approved by the Engineering Undergraduate Committee.\*

*\*The list of electives is available in the Department of Electrical and Computer Engineering office (Potter 121) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf)*

## Bachelor of Science in Electrical Engineering

(127 CREDITS) EAC OF ABET ACCREDITED

*Requirements common for Bachelor of Science in Computer Engineering or Electrical Engineering plus:*

### 1. Electrical and Computer Engineering

ECE 33500	Electronics-Systems
ECE 38400	Linear Control Systems
ECE 44800	Introduction to Communication Theory

### 2. Electrical and Computer Engineering Electives

Four courses from a list approved by the Engineering Undergraduate Committee.\*

### 3. Engineering Elective

One Engineering (any) course approved by the Engineering Undergraduate Committee.\*

### 4. Engineering/Science Elective

One Engineering (any) or Science course from a list approved by the Engineering Undergraduate Committee.\*

### 5. Technical Electives

One course in Engineering (any), Science, Mathematics, Computer Science, Statistics, or Management from a list approved by the Engineering Undergraduate Committee.\*

*\*The list of electives is available in the Department of Electrical and Computer Engineering office (Potter 121) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf)*

## Bachelor of Science in Electrical Engineering with a minor in Mechatronics

(127 CREDITS) EAC OF ABET ACCREDITED

*Requirements common for the Bachelor of Science in Electrical Engineering with the seven electives (four Electrical and Computer Engineering, Engineering, Engineering/Science, and Technical) replaced by:*

ME 27100	Basic Mechanics I: Statics
ME 27500	Basic Mechanics II: Dynamics
ME 32500	Dynamics of Physical Systems
ECE 38000	Computers in Engineering Analysis
ECE 42600	Electric Drives

Two courses from a list approved by the Engineering Undergraduate Committee.\*

*\*The list of the electives is available in the Department of Electrical and Computer Engineering office (Potter 121) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf)*

## Bachelor of Science in Engineering, Interdisciplinary Engineering Option

(128 CREDITS)

*The Interdisciplinary Engineering Option provides a maximum degree of flexibility for those students who want this flexibility and do not require an ABET-accredited degree. The degree features a strong, broad engineering problem-solving base in both electrical and mechanical engineering with the ability to tailor the large number of technical electives toward each student's specific interests and/or goals. It is particularly appropriate for those students planning to pursue post-graduate education in law, management, medicine, pharmacy, etc. For the course list, see the Department of Electrical and Computer Engineering (Potter 121) or [www.purduecal.edu/ece/BS\\_IDE\\_option.pdf](http://www.purduecal.edu/ece/BS_IDE_option.pdf).*

## Master of Science in Engineering

(30 CREDITS)

Purdue University Calumet offers a graduate curriculum leading to the Master of Science in Engineering degree with specialization in Electrical and Computer Engineering, Mechanical Engineering, and Interdisciplinary Engineering. Courses are available in computer, electrical, mechanical, civil, metallurgical, and industrial engineering. The program has the flexibility to allow students to elect courses in one or several engineering disciplines.

### Assistantships

Teaching and research assistantships are available to qualified graduate students.

### Special Admission Requirements

1. Bachelor's degree in Engineering from an institution accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). Other students having adequate mathematical preparation with bachelor's degrees in non-engineering fields may be admitted on a conditional basis – they must complete 18-27 credits in the engineering field of their choice for the Master's degree with a GPA of 3.0/4.0 or better before being considered for full admission.
2. **Undergraduate GPA of 3.0/4.0 or better.** Conditional admission may be granted to students with lower GPA's, with the stipulation that they must receive a grade of B or better for the first 9 credits of graduate work. Some students may be advised to complete prerequisite or additional courses which will not count toward their degree.
3. **Post-baccalaureate admission.** Students may enroll to meet individual needs for continuing education rather than for pursuing a degree. Enrollment as a post-baccalaureate student does not imply later approval for degree-seeking status, nor does it guarantee acceptance toward a degree of credit taken as a post-baccalaureate student.

### Degree Requirements

1. **Non-thesis Option:** 30 semester credits, with at least 18 credits of primary graduate-level engineering courses.
2. **Thesis Option:** 30 semester credits, with 9 credits for the thesis research and at least 18 credits of graduate-level engineering courses.
3. GPA of 3.0/4.0 for all courses on the approved plan of study. Some advisory committees may require grades higher than C in specific courses.
4. An advisory committee with at least three members and at least one member to represent a related engineering area. Students will consult with a major advisor assigned upon admission.
5. A plan of study established in consultation with the major advisor or professor and reviewed by members of the advisory committee, and the chair of the Graduate Committee.

**Credit for Pre-Admission Course Work:** a maximum of 12 semester credits of courses with grades of B or better and satisfying course requirements on the approved plan of study may be used, subject to approval of the student's advisory committee. This limit applies to all pre-admission course work, including post-baccalaureate credit at Purdue, undergraduate excess credit, and transfer credit.

**Time limit on reentry:** A new plan of study must be approved if a student is inactive in the program for five years, usually excluding courses previously taken.

## Graduate Certificate in Engineering Project Management

The Graduate Certificate in Engineering Project Management can be earned by completing four courses from the following graduate courses:

- Advanced Engineering Project Management (Required)
- Advanced Engineering Economics (Required)
- Quality Control
- Industrial Applications of Statistics
- Systems Engineering

All course taken for the certificate can be used for the Master of Science in Engineering degree if admitted to that program.

Admission to the certificate program requires a Bachelor's degree in Engineering or approval of the Engineering Graduate Coordinator.

# Minor in Environmental Science

(18 CREDITS)\*

**Program Coordinator:** Prof. Young D. Choi

Environmental Science is an interdisciplinary study that uses information and knowledge from life sciences (such as biology), physical sciences (e.g., chemistry, geology, and physics), and social sciences (e.g., economics, politics, and ethics) to learn how the Earth's environment works, how our environment affect us, how we affect our environment, and how to deal with the environmental challenges we face. Although the Program is housed in the School of Engineering, Mathematics and Science, it is open to all Purdue Calumet students. Any Purdue Calumet student may become an environmental science minor by submitting a completed Student Curriculum Update/Change form (indicating the minor code KSE) to the Registrar. The Program aims to provide students with opportunities for gaining (1) a knowledge of the natural environment and how it is influenced by human society along with critical thinking skills, (2) exposure to modern and traditional technology in environmental subjects, and (3) "real world" experience through an internship or capstone project. The Program's curriculum consists of 18 credits (6 credits in core courses and 12 credits in elective courses) as listed below. A majority of the 18 credits can be fulfilled by the courses that are taken for general education requirements, the student's major requirements, and elective courses. Therefore, it is possible to complete the Environmental Science Minor curriculum with **no or very few additional courses beyond the graduation requirement** of the student's major.

## Core Courses (6 credits)

NRES 20200 Concepts of Environmental Science (3 credits)

NRES 49100 Environmental Internship (3 credits)

**OR**

Senior/capstone/research project with an environmental emphasis in the student's major (3 credits)<sup>A</sup>

## Elective Courses (12 credits; must include a minimum of 6 credits from outside of the student's major)

BIOL 21000 Field Biology

BIOL 33300 Ecology

BIOL 38300 Conservation Biology\*

BIOL 58700 Biogeography\*

BIOL 58800 Plant Ecology\*

BIOL 58900 Laboratory in Plan Ecology\*

BIOL 59100 Field Ecology\*

CE 20100 Surveying & GIS\*

CE 35400 Introduction to Environmental Engineering

CHM 32400 Environmental Chemistry\*

EAS 22000 Physical Geography

EAS 22300 Ocean Studies

EAS 22400 Weather Studies

ECON 31100 Environmental Economics\*

HIST 56200 Environmentalism in United States History\*

POL 22300 Environmental Policy

POL 52200 Energy, Politics, and Public Policy\*

POL 52300 Environmental Politics and Public Policy\*

SCI 10300 Survey of the Biological World

SCI 10400 Introduction to Environmental Biology

SCI 13100 Science & Environment

SCI 31500 Environmental Science for Elementary Education

*Any course on the environmental subject upon approval of the program coordinator*

*\*These courses have prerequisites.*

# Department of Mathematics, Computer Science, and Statistics

**Catherine M. Murphy, Department Head.** *Faculty:* G. Aryal; R.D. Bechtel (Emeritus); Y.C. Chen (Emeritus); T.S. Chihara (Emeritus); J.J. Coffey; A. Elmendorf; J. Gregg; H. Hosek (Emeritus); B.L. Jahr-Schaffrath (Emeritus); N.L. Johnson; R.L. Kraft; W.C. Lordan (Emeritus); J.P. McLaughlin (Emeritus); R.R. Merkovsky; G. Millsaps; C. Murphy; N. Relich (Emeritus); W. Ruan; Nicolae Tarfulea; Nicoleta Tarfulea; D.J. Troy (Emeritus); P. Turbek; D. Underwood-Gregg; M. Weinhold; E.B. Yackel (Emeritus); J. Yackel (Emeritus); S. Yang; R.L. Yates (Emeritus); R. Zhang; H. Zhao  
*Continuing Lecturers:* A. Ayebo; R. Dubec; N. Elias; J. Johnson; M. Leonard; D. Murchek; J. Smith

A careers-for-today-and-the-future approach provides the framework for programs in the department of mathematics, computer science, and statistics. All programs are based on an understanding of mathematics as one of humankind's most impressive intellectual achievements. Mathematics is a balance of art and science which enriches other areas of human endeavor and draws from these areas some seeds of its own, thus continuing growth. Computer Science and Statistics, with roots deep in the traditions of mathematics, are exciting, rapidly expanding fields which provide the basis for many contemporary applications which affect us daily in such areas as commerce, industry, medicine, and environmental issues. Mathematics education focuses on deep conceptual understanding of mathematical content knowledge and on the psychological and sociological aspects of mathematics learning. Within each degree and option, majors choose a blend of mathematics, computer science, and statistics appropriate to building strong foundations for professional development.

Undergraduate majors in the department select from three options of study to meet a variety of interests and goals. The department also offers all students at Purdue Calumet instruction in the areas of mathematical sciences they will need in their chosen fields of study.

The Master of Science in Mathematics is a strong program in mathematics for students employed in business, industry, or government as well as those students planning to teach at two-year colleges or to pursue a Ph.D. degree in mathematics or mathematics education.

The Master of Science in Computer Science is the program that prepares students for rewarding careers in computer science by laying the foundations for developing expertise in algorithm analysis and implementing sophisticated practical applications.

## Programs

- Bachelor of Science: Core Mathematics, Mathematics Education, and Computer Science
- Master of Science in Mathematics
- Master of Science In Computer Science

## Bachelor of Science Programs

All majors must satisfy the following general degree requirements. Mathematics courses below MA 163 do not count toward graduation. All required Mathematics, Computer Science, and Statistics courses must be passed with a grade of C or better. All students must successfully complete two (2) courses designated as Experiential Learning (ExL). General Education courses must be chosen from a list of courses approved by the University Senate.

### Bachelor of Science, Core Mathematics

(124 CREDITS)

**Core Mathematics** provides preparation for graduate study in mathematics, employment in business, industry or government. It also prepares one for advanced work in other fields where strong mathematical backgrounds are valuable—for example, science, finance, educational research, psychology, law, and medicine.

#### 1. General Education Requirements (52-56 credits)

A. English Composition (6 credits)  
ENGL 10400 and ENGL 10500

B. Communications (3 credits)  
COM 11400

C. Science (12–16 credits)  
Four approved lab science courses of which at least two must have a lab component

D. Humanities and Social Sciences (30 credits)  
Six approved credits from each of four of the five following areas, with the other six approved credits distributed in the humanities and social sciences courses by the student.

- Literature, Philosophy, Aesthetics  
(MUS 25000, THTR 20100, PHIL 10600, A&D 25500 only)
- History, Political Science
- Economics (Econ 25100 or Econ 25200)
- Sociology, Psychology
- Foreign Language

E. Freshman Seminar -- MA 10000 (1 credit)

#### 2. Required Mathematics, Computer Science, and Statistics Courses (47 credits)

MA 16300	Integrated Calculus and Analytic Geometry I (5 cr.)
MA 16400	Integrated Calculus and Analytic Geometry II (5 cr.)
MA 26100	Multivariate Calculus (4 cr.)
MA 26400	Differential Equations
MA 26500	Linear Algebra
MA 31200	Probability
MA 31500	Introduction to Abstract Mathematics
MA 33000	Concepts in Geometry
MA 34800	Discrete Mathematics
MA 44600	Introduction to Real Analysis
MA 45300	Elements of Algebra
MA 47200	Introduction to Applied Mathematics
CS 20600	Computer Algebra and Programming
STAT 34500	Statistics

#### 3. Minor Area

18 credits including at least three courses beyond the introductory level.

### Bachelor of Science, Mathematics Education

(126-129 CREDITS)

Mathematics Education provides the mathematical preparation necessary for teaching secondary school mathematics in Indiana. Requirements for teacher certification vary from state-to-state. Requirements for other states may be obtained by writing to the Certification Office, Department of Teacher Education, in the capital city of the state of interest.

Graduation in this program is open only to those who fulfill all the academic requirements for licensure to teach mathematics in Indiana schools.

#### 1. General Education Requirements (43-46 credits)

A. English Composition (6 credits)  
ENGL 10400 and ENGL 10500

B. Communications (3 credits)  
COM 11400

**C. Science (9–12 credits)**

Three approved lab science courses including one life science and one physical science. At least two of the science courses must have a lab component.

**D. Humanities and Social Sciences (24 credits)**

Three approved credits must be chosen from the humanities: literature, history, philosophy, foreign languages, art, music, theater.

Three approved credits must be chosen from social sciences: anthropology, psychology, sociology, political science, economics.

Six approved credits must be chosen from each of three of the following five areas. The remaining credit hours (if any) in this area may be distributed in humanities and social sciences courses by the student.

- i) Literature, Philosophy, Aesthetics  
(MUS 25000, THTR 20100, PHIL 10600, A&D 25500 only)
- ii) History, Political Science
- iii) Economics (ECON 25100 or ECON 25200)
- iv) Sociology, Psychology
- v) Foreign Language

E. Freshman Seminar -- MA 10000 (1 credit)

**2. Required Mathematics, Computer Science, and Statistics Courses (47 credits)**

MA 16300	Integrated Calculus and Analytic Geometry I (5 cr.)
MA 16400	Integrated Calculus and Analytic Geometry II (5 cr.)
MA 26100	Multivariate Calculus (4 cr.)
MA 26400	Differential Equations
MA 26500	Linear Algebra
MA 31200	Probability
MA 31500	Introduction to Abstract Mathematics
MA 33000	Concepts in Geometry
MA 34800	Discrete Mathematics
MA 44600	Introduction to Real Analysis
MA 45300	Elements of Algebra
MA 47200	Applied Mathematics
CS 20600	Computer Algebra and Programming
STAT 34500	Statistics

**3. Professional Education Courses (36 credits)**

EDFA 20000	History and Philosophy of Education
EDPS 22000	Psychology of Learning
EDPS 26000	Introduction to Special Education
EDCI 35500	Teaching and Learning in the K-12 Classroom
EDCI 36600	Use of Assessment in K-12 Classroom
EDPS 37000	Teaching Students with Diverse Learning Needs
EDCI 34400	Mathematics Teaching in Middle School, Jr. High, High School
EDCI 32300	Educational Technology for Teaching and Learning
EDCI 49702	Professional Semester (12 credits)

**Bachelor of Science, Computer Science**

(124 CREDITS)

Computer Science is a young and rapidly developing field. As a result, the curriculum must be revised frequently to keep it up to date. Please check with the department for the latest information.

The computer science program prepares students for a wide variety of professional opportunities in business, industry, and government where the computer scientist is involved in applying, designing, and implementing application software, programming languages, computer graphics systems, computer operating systems, internet distributed computing systems, new computer algorithms. This program also prepares students for graduate study in computer science.

**1. General Education Requirements (46–49 credits)**

- A. English Composition (6 credits)  
ENGL 10400 and ENGL 10500
- B. Communications (3 credits)  
COM 11400
- C. Science (9–12 credits)  
Three approved lab science courses of which at least two must have a lab component.

**D. Humanities and Social Sciences (27 credits)**

Six approved credits from each of four of the following five areas, with the other three approved credits in a humanities and social sciences course chosen by the student.

- i) Literature, Philosophy, Aesthetics  
(MUS 25000, THTR 20100, PHIL 10600, A&D 25500 only)
- ii) History, Political Science
- iii) Economics
- iv) Sociology, Psychology
- v) Foreign Language

E. Freshman Seminar -- MA 10000 (1 credit)

**2. Required Mathematics Courses (20 credits)**

MA 16300	Integrated Calculus and Analytic Geometry I (5 credits)
MA 16400	Integrated Calculus and Analytic Geometry II (5 credits)
MA 26100	Multivariate Calculus (4 credits)
MA 26500	Linear Algebra
MA 31200	Probability

**NOTE:** MA 26400, Differential Equations, is strongly recommended for those who plan to attend graduate school or pursue careers in scientific computer science.

**3. Required Computer Science Courses (42 credits)**

CS 12300	Programming I: Java
CS 12400	Programming II: C++
CS 22300	Computer Architecture and Assembly Language
CS 27500	Data Structures
CS 30200	Operating Systems
CS 30900	Discrete Mathematical Structures
CS 31600	Programming Languages
CS 33200	Algorithms
CS 40400	Distributed Systems
CS 41000	Automata and Computability
CS 41600	Software Engineering
CS 42000	Senior Design Project
CS 44200	Database Systems
CS 45500	Computer Graphics

**Minors offered by the Department of Mathematics, Computer Science, and Statistics**

The department offers two minors in mathematics and a minor in computer science. These are valuable complements to many fields of study.

**Minor in Computer Science**

(18 CREDITS)

CS 12300	Programming I: Java
CS 12400	Programming II: C++
CS 22300	Computer Architecture and Assembly Language
CS 27500	Data Structures
CS 30200	Operating Systems

One of the following:

CS 31600	Programming Languages
CS 33200	Algorithms

**OR**

One 40000-level CS course.

**NOTE:** MA 15900 or MA 16300 is a co-requisite for CS 12300. MA 16300 is a prerequisite for CS 27500.

**Minor in Mathematics**

(23 CREDITS)

MA 16300 (5 credits)	Integrated Calculus and Analytic Geometry I
MA 16400 (5 credits)	Integrated Calculus and Analytic Geometry II
MA 26100 (4 credits)	Multivariate Calculus

MA 26500	Linear Algebra
MA 31500	Introduction to Abstract Mathematics
<i>One of the following:</i>	
MA 45300	Elements of Algebra
MA 44600	Real Analysis

## Minor in Applied Mathematics

(23 CREDITS)

MA 16300 (5 credits)	Integrated Calculus and Analytic Geometry I
MA 16400 (5 credits)	Integrated Calculus and Analytic Geometry II
MA 26100 (4 credits)	Multivariate Calculus
MA 26400	Differential Equations
MA 26500	Linear Algebra
MA 47200	Applied Mathematics

### GRADUATE PROGRAMS

## Master of Science in Mathematics

(33 CREDITS)

### Special Admission Requirements

*Strong undergraduate program in mathematics, including linear algebra, abstract algebra, advanced analysis, and differential equations.*

### Special Program Requirements

1. No more than six credits of coursework with grade of "C." "B" average must be maintained.
2. All courses taken as a temporary student must post grades of "A" or "B."
3. Plan of Study submitted to Student's Advisory Committee before the end of nine semester credits; must be approved by the Graduate School before the student registers for the semester in which the degree is to be awarded.

### Degree Requirements

#### 1. Five Core Courses

MA 52500	Intro. Complex Analysis
MA 54000	Analysis I
MA 54100	Analysis II
MA 55300	Intro. Abstract Algebra
MA 55400	Linear Algebra

#### 2. Statistics

*One approved course*

#### 3. Approved Electives (5 courses)

*Up to six credits may be chosen from approved courses in other departments.*

**Transfer of credit:** No more than three courses accepted from other institutions.

## Master of Science in Computer Science

(30 CREDITS)

### Description

*The Master of Science in Computer Science integrates fundamental theoretical concepts with sophisticated practical applications. Graduates will be prepared for employment in the field, and, for those students who are so interested, for further studies in computer science.*

*Students must have the necessary prerequisite knowledge to undertake the study of advanced computer science topics.*

### Program Requirements

1. No more than six credits of coursework with a grade of "C." "B" average must be maintained.
2. All courses taken as a temporary student must post grades of "A" or "B."
3. Plan of Study submitted to Student Advisory Committee before the end of nine semester credits; must be approved by the Graduate School before the student registers for the semester in which the degree is to be awarded.
4. No more than three courses accepted from other institutions may be used on a Plan of Study. Please refer to the section on graduate study for other regulations governing graduate study at Purdue Calumet.

### Degree Requirements:

#### Core Courses (9 credits)

- Compiling and Programming Systems
- Operating Systems
- Algorithm Design, Analysis, and Implementation

#### Electives (21 credits)

7 approved courses.

### Department Head

e-mail: [cmmurphy@purduecal.edu](mailto:cmmurphy@purduecal.edu)

### Undergraduate Advisor

e-mail: [johnsonn@purduecal.edu](mailto:johnsonn@purduecal.edu)

### Graduate Advisor M.S. in Mathematics: Catherine Murphy

e-mail: [cmmurphy@purduecal.edu](mailto:cmmurphy@purduecal.edu)

### Graduate Advisor M.S. in Computer Science: Hairong Zhao

e-mail: [hairong@purduecal.edu](mailto:hairong@purduecal.edu)

# Department of Mechanical Engineering

**G. A. Nnana, Interim Head.** *Faculty:* H.A. Abramowitz; E.H. Buyco (Emeritus); Y.B. Kin; M. Mojtabeh; J.H. Packer (Emeritus); B.K. Pai; R. Rescot; C. Viswanathan; X. Wang; C. Q. Zhou; Y. Siow (Continuing Lecturer); A. Soltani (Visiting)

Civil and mechanical engineers help to improve the quality of life, the productivity of industry and individuals, and the standard of living for everyone. Engineers are problem-solvers, using science, mathematics, and technology in their solutions. Most solutions involve thinking, calculating, innovating, building, and teamwork with other professionals. Graduates from the bachelors or masters programs may choose a career involving design, development, research, manufacturing, testing or a combination of these. Civil and mechanical engineering graduates are in great demand, and starting salaries are excellent.

The undergraduate curriculum leads to a Bachelor of Science in Civil Engineering, Mechanical Engineering, or Mechanical Engineering with a minor in Mechatronics. The first semester courses are the same for all engineering students. Then, students specialize in Civil or Mechanical Engineering, the latter accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). The Civil Engineering program cannot be accredited until at least one year after the first graduates. An Interdisciplinary Engineering Option allows students to design their own programs to meet their career needs, such as pre-law or pre-medicine. The flexibility of the engineering program allows students interested in other engineering disciplines not offered at Purdue Calumet, such as aerospace, chemical, etc., to complete one to two years of study before transferring to another university.

The Purdue Calumet engineering graduate curriculum leads to a Master of Science in Engineering degree, and/or a Graduate Certificate in Engineering Project Management. Graduates of engineering or related programs are also welcome to take individual courses for professional development and technical currency without pursuing a graduate degree.

**Reasons to major in Civil or Mechanical Engineering at Purdue University Calumet.** Engineering at Purdue Calumet provides an opportunity to earn an internationally-respected Purdue Engineering Degree from a program with excellent job placement and high starting salaries. Engineering classes are small and are taught by qualified faculty members dedicated to teaching or adjunct faculty who have many years of industrial experience. Most faculty members also engage in research, consulting, or other professional activities, and participate in professional engineering societies. Many faculty have received outstanding teaching, research, and service awards. The state of the art laboratory facilities provide a mechanism for students to gain hands-on experience that will aid their understanding of the engineering and scientific theories taught in the lectures. Courses are provided both days and evenings on a publicized schedule to meet the needs of both full-time and part-time students. Incoming students are assigned to an advisor familiar with the problems and special needs of new students. After choosing a major, the student receives an experienced engineering faculty advisor. The programs prepare their graduates for life and for the engineering profession. The civil and mechanical engineering programs offer a cost-effective, quality program that was ranked among the top 50 of the Best Undergraduate Engineering Programs at Non-Doctoral Schools in the 2011 US News and World Report.

**Senior Engineering Design Projects.** A capstone, one-year project for all seniors provides the opportunity to work in multi-disciplinary teams to pursue an engineering idea from conception to design, fabrication, and testing. The senior projects provide a transition from university study to the real world of engineering work, building on Purdue Calumet's strength in experiential education. Many of the project ideas come from local industry. Special equipment available for senior design projects includes personal computers with an array of engineering software packages such as data acquisition capability, rapid prototyping and computer-aided design (CAD), computational fluid dynamics (CFD), finite element analysis (FEA), and specialized civil engineering software. Also available are fatigue and strength testing equipment including tensile, creep, and impact testing machines; heat-treating equipment; metrology equipment; optical and scanning electron microscopes; a wind tunnel; robotics; nanofluids systems; a visualization and simulation lab; a well-equipped soils lab; a survey lab; a hydrology and hydraulics lab; and a complete machine shop including CNC machines.

**Undergraduate Research, Professional Experience Programs, and Cooperative Education.** Strong partnerships with industry and funded research provide great opportunities for undergraduate as well as graduate student research. The Professional Experience Program, internships, and other experiential learning programs provide opportunities for students to gain relevant work experience by part-time employment while attending school part-time, or by full-time employment. The Co-op program provides engineering students with the opportunity to work in the engineering profession while obtaining their degree. All provide students practical experience while earning money to pay for their education. These opportunities make the education more meaningful for students and make the students more attractive to employers when they graduate, thus improving employment opportunities.

**Graduate Internship in Engineering.** The Graduate Internship program allows students who have been accepted into the Master of Science in Engineering program to work part-time in the engineering profession while attending the University and working toward a degree. Students will have the opportunity to compile a portfolio of their experience.

## Programs

- Bachelor of Science in Civil Engineering
- Bachelor of Science in Mechanical Engineering\*
- Bachelor of Science in Mechanical Engineering with a minor in Mechatronics\*\*
- Bachelor of Science in Engineering, Interdisciplinary Engineering Option
- Master of Science in Engineering
- Master of Science in Engineering with ME Specialization
- Graduate Certificate in Engineering Project Management

\*Accredited by the Engineering Accreditation Commission of ABET (EAC-ABET)

\*\*Accredited as a subset of Mechanical Engineering.

## Civil and Mechanical Engineering Program Educational Objectives

The Civil Engineering curriculum provides a broad education in the fundamentals of Civil Engineering. Students may pursue a general program or may choose to specialize in Environmental, Structural, or Transportation areas.

The Mechanical Engineering curriculum provides a broad education in the fundamentals of Mechanical Engineering. Students may pursue a general program or may choose a specialization in areas such as Thermal and Fluid Sciences, Solid Mechanics, or Mechatronics.

The educational objectives provide each graduate with:

- 1. Engineering Competence** – Graduates are competent and engaged professionals in their field.
- 2. Continuous Learning Skills** – Graduates continue developing professionally.
- 3. Professional Skills** – Graduates demonstrate teamwork and leadership skills, and are contributors in their profession.
- 4. Societal Awareness** – Graduates recognize the societal, ethical, and global impacts of their work.

## Bachelor of Science in Civil Engineering

(127 CREDITS)

### Special Admission Requirements

Students must have adequate preparation in mathematics and chemistry to complete the freshman year in two semesters.

#### Math

All new students must take a math placement exam.

Students with no high school trigonometry or low placement score should take MA 15900.

#### Chemistry

Students without one year of high school chemistry with an average grade of 'C' or better should take CHM 10000 prior to CHM 11500.

### 1. English and Communication

ENGL 10400	English Composition I
COM 11400	Fundamentals of Speech
COM/ENGL 30700	Written and Oral Communication for Engineers

### 2. Science and Mathematics

CHM 11500	General Chemistry
PHYS 15200	Mechanics
PHYS 26100	Electricity Optics
MA 16300	Calculus and Analytic Geometry I
MA 16400	Calculus and Analytic Geometry II
MA 26100	Multivariate Calculus
MA 26400	Differential Equations
MA 26500	Linear Algebra
STAT 34500	Statistics
	Science Elective*

\* The Science Elective has to be an in an area of science other than PHYS or CHM, and consistent with the program educational objectives. The list of science electives is available in the Department of Mechanical Engineering office (Powers 211) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf).

### 3. Humanities and Social Sciences (12 credits)

<i>Required</i>	
PHIL 324	Ethics for the Professions
POL 305	Technology and Society

The balance (6 credits) is selected by the student and advisor to give the student an opportunity to explore areas within the humanities and social sciences. Credit for ECON 21000 is not allowed. Subject areas not acceptable are skills courses such as writing and speaking, accounting, industrial management, personal finance, ROTC, and personnel administration. Credit is not allowed for a student's native language.

### 4. General Engineering

ENGR 15100	Software Tools for Engineers
ENGR 18600	Engineering Freshman Seminar
ENGR 19000	Elementary Engineering Design
CE 11500	Engineering Drawing I
CE 11600	Engineering Drawing II
ME 31100	Engineering Economics and Project Management
ME 42900	Senior Engineering Design I
ME 43900	Senior Engineering Design II

### 5. Civil Engineering

CE 20100	Surveying & G.I.S
CE 27101	Basic Mechanics I: Statics
CE 27300	Mechanics of Materials
CE 27500	Basic Mechanics II: Dynamics
CE 31200	Fluid Mechanics
CE 31300	Fluid Mechanics Laboratory
CE 32200	Introduction to Construction Engineering
CE 32300	Soil Engineering
CE 33400	Structural Analysis
CE 34200	Engineering Hydrology and Hydraulics
CE 35100	Intro to Transportation Engineering
CE 35400	Intro to Environmental Engineering
CE 47100	Reinforced Concrete Design

### 6. Mechanical Engineering

ME 34500	Mechanical Engineering Experimentation
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### 7. Materials Science

CE 20400	Civil Engineering Materials
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### 8. Civil Engineering Elective \*

Three courses from a list approved by the Engineering Undergraduate Committee.\*

\*\*The list of electives is available in the Department of Mechanical Engineering office (Powers 211) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf)

## Bachelor of Science in Mechanical Engineering

(127 CREDITS) EAC OF ABET ACCREDITED

### Special Admission Requirements

Students must have adequate preparation in mathematics and chemistry to complete the freshman year in two semesters.

#### Math

All new students must take a math placement exam.

Students with no high school trigonometry or low placement score should take MA 15900.

#### Chemistry

Students without one year of high school chemistry with an average grade of 'C' or better should take CHM 10000 prior to CHM 11500.

### 1. English and Communication

ENGL 10400	English Composition I
COM 11400	Fundamentals of Speech
COM/ENGL 30700	Written and Oral Communication for Engineers

### 2. Science and Mathematics

CHM 11500	General Chemistry
PHYS 15200	Mechanics
PHYS 26100	Electricity Optics
MA 16300	Calculus and Analytic Geometry I
MA 16400	Calculus and Analytic Geometry II
MA 26100	Multivariate Calculus
MA 26400	Differential Equations
MA 26500	Linear Algebra

### 3. Humanities and Social Sciences (12 credits)

Required

- PHIL 32400 Ethics for the Professions  
POL 30500 Technology and Society

The balance (6 credits) is selected by the student and advisor to give the student an opportunity to explore areas within the humanities and social sciences. Credit for ECON 21000 is not allowed. Subject areas not acceptable are skills courses such as writing and speaking, accounting, industrial management, personal finance, ROTC, and personnel administration. Credit is not allowed for a student's native language.

### 4. General Engineering

- ENGR 15100 Software Tools for Engineers  
ENGR 18600 Engineering Freshman Seminar  
ENGR 19000 Elementary Engineering Design  
ME 11500 Engineering Drawing I  
ME 11600 Engineering Drawing II  
ME 31100 Engineering Economics and Project Management  
ME 42900 Senior Engineering Design I  
ME 43900 Senior Engineering Design II

### 5. Electrical and Computer Engineering

- ECE 20100 Linear Circuit Analysis I  
ECE 20700 Electronic Measurement Techniques

### 6. Mechanical Engineering

- ME 27100 Basic Mechanics I: Statics  
ME 27500 Basic Mechanics II: Dynamics  
ME 30500 General Thermodynamics I  
ME 31200 Fluid Mechanics  
ME 31300 Fluid Mechanics Laboratory  
ME 32000 Kinematic Analysis and Design  
ME 32500 Dynamics of Mechanical Systems  
ME 34500 Mechanical Engineering Experimentation  
ME 41600 Heat Transmission  
ME 41700 Heat Transmission Laboratory  
ME 46100 Machine Design I

### 7. Civil Engineering

- CE 27300 Mechanics of Materials

### 8. Materials Science

- MSE 20000 Materials Science

### 9. Mechanical Engineering Electives

Four courses from a list approved by the Engineering Undergraduate Committee.\*

### 10. Engineering Elective

One Engineering (any) course approved by the Engineering Undergraduate Committee.\*

### 11. Technical Elective

One course in Engineering (any), Science, Mathematics, Computer Science, Statistics, or Management approved by the Engineering Undergraduate Committee.\*

\*The list of electives is available in the Department of Mechanical Engineering office (Powers 211) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf)

## Bachelor of Science in Mechanical Engineering with a minor in Mechatronics

(128 CREDITS) EAC/ABET ACCREDITED

Requirements for the Bachelor of Science in Mechanical Engineering with the six electives (four Mechanical Engineering, Engineering, and Technical) replaced by:

- ECE 15200 Programming for Engineers  
ECE 20200 Linear Circuit Analysis II  
ECE 21800 Linear Circuits Laboratory II  
ECE 23300 Microcomputers in Engineering  
ECE 38000 Computers in Engineering Analysis  
ME 48500 Linear Control Systems

One Mechatronics Elective from a list approved by the Engineering Undergraduate Committee.\*

\*The list of electives is available in the Department of Mechanical Engineering office (Powers 211) and at [www.purduecal.edu/engr/electives.pdf](http://www.purduecal.edu/engr/electives.pdf)

## Bachelor of Science in Engineering, Interdisciplinary Engineering Option

(128 CREDITS)

The Interdisciplinary Engineering Option provides a maximum degree of flexibility for those students who want this flexibility and do not require an ABET-accredited degree. The degree features a strong, broad engineering problem-solving base in both electrical and mechanical engineering with the ability to tailor the large number of technical electives toward each student's specific interests and/or goals. It is particularly appropriate for those students planning to pursue post-graduate education in law, management, medicine, pharmacy, etc. For a list, see the Department of Mechanical Engineering (Powers 211) or [www.purduecal.edu/me/BS\\_IDE\\_option.pdf](http://www.purduecal.edu/me/BS_IDE_option.pdf).

## Master of Science in Engineering

(30 CREDITS)

Purdue University Calumet offers a graduate curriculum leading to the Master of Science in Engineering degree with specialization in Electrical and Computer Engineering, Mechanical Engineering, and Interdisciplinary Engineering. Courses are available in computer, electrical, mechanical, civil, metallurgical, and industrial engineering. The program has the flexibility to allow students to elect courses in one or several engineering disciplines.

### Assistantships

Teaching and research assistantships are available to qualified graduate students.

### Special Admission Requirements

1. Bachelor's degree in Engineering from an institution accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). Other students having adequate mathematical preparation with bachelor's degrees in non-engineering fields may be admitted on a conditional basis — they must complete 18–27 credits in the engineering field of their choice for the Master's degree with a GPA of 3.0/4.0 or better before being considered for full admission.
2. **Undergraduate GPA of 3.0/4.0 or better.** Conditional admission may be granted to students with lower GPAs, with the stipulation that they must receive a grade of B or better for the first 9 credits of graduate work. Some students may be advised to complete prerequisites or additional courses which will not count toward their degree.
3. **Post-baccalaureate admission.** Students may enroll to meet individual needs for continuing education rather than for pursuing a degree. Enrollment as a post-baccalaureate student does not imply later approval for degree-seeking status, nor does it guarantee acceptance toward a degree of credit taken as a post-baccalaureate student.

### Degree Requirements

1. **Non-thesis Option:** 30 semester credits, with at least 18 credits of primary graduate-level engineering courses.
2. **Thesis Option:** 30 semester credits, with 9 credits for the thesis research and at least 18 credits of graduate-level engineering courses. 21 semester credits plus thesis.
3. GPA of 3.0/4.0 for all courses on the approved plan of study. Some advisory committees may require grades higher than C in specific courses.
4. An advisory committee with at least three members and at least one member to represent a related engineering area. Students will consult with a major advisor assigned upon admission.
5. A plan of study established in consultation with the major advisor or professor and reviewed by members of the advisory committee, and the chair of the Graduate Committee.

**Credit for Pre-Admission Course Work:** a maximum of 12 semester credits of courses with grades of B or better and satisfying course requirements on the approved plan of study may be used, subject to approval of the student's advisory committee. This limit applies to all pre-admission course work, including post-baccalaureate credit at Purdue, undergraduate excess credit, and transfer credit.

**Time limit on reentry:** A new plan of study must be approved if a student is inactive in the program for five years, usually excluding courses previously taken.

## Graduate Certificate in Engineering Project Management

The Graduate Certificate in Engineering Project Management can be earned by completing four courses from the following graduate courses:

- Advanced Engineering Project Management (Required)
- Advanced Engineering Economics (Required)
- Quality Control
- Industrial Applications of Statistics
- Systems Engineering

All course taken for the certificate can be used for the Master of Science in Engineering degree if admitted to that program.

Admission to the certificate program requires a Bachelor's degree in Engineering or approval of the Engineering Graduate Coordinator.

*School of*  
LIBERAL ARTS and SOCIAL SCIENCES

# School of LIBERAL ARTS and SOCIAL SCIENCES

Ronald Corthell, Dean  
[www.purduecal.edu/lass](http://www.purduecal.edu/lass)

The School of Liberal Arts and Social Sciences (LASS) houses the following departments:

- **Behavioral Sciences** (Thomas Pavkov, interim head; 219/989-2384, Porter Hall, Room 213)
- **Communication and Creative Arts** (Yahya Kamalipour, head; 219/989-2393, Porter Hall, Room 118)
- **English and Philosophy** (Daniel Punday, head; 219/989-2261, Classroom Office Bldg., Room 217)
- **Foreign Languages and Literatures** (Luisa Garcia-Verdugo, head; 219/989-2632, Classroom Office Bldg., Rm. 313)
- **History and Political Science** (Richard Rupp, head; 219/989-2347, Classroom Office Bldg., Room 215)
- **Hospitality and Tourism Management** (Michael Flannery, head; 219/989-2340, Hospitality Tourism Management Building, Room 195)

## Bachelor's Degree Programs

- Communication
  - Advertising
  - Broadcasting
  - General Communication
  - Journalism
  - Organizational Communication
  - Public Relations
  - Visual Communication Design
- English
  - Literature
  - Professional Writing
  - Teaching
- French
  - French-International Studies
  - French Teaching
- Spanish
  - Spanish-International Studies—Heritage
  - Spanish-International Studies—Non-Heritage
  - Spanish Teaching
    - Heritage
    - Non-Heritage
  - History (and Pre-Law)
  - Political Science (and Pre-Law)
  - Political Science-Criminal Justice
  - Social Studies Teaching
  - Hospitality and Tourism Management
  - Hospitality and Tourism Management- Fitness Management
- Human Development and Family Studies
  - Child and Family Services
  - Early Childhood Development
  - Gerontology
  - Disability Studies
- Philosophy
- Psychology
- Sociology
  - Criminal Justice
  - General Sociology
  - Gerontology

## Master's Degree Programs

- Child Development and Family Studies,
  - Specialization in Human Development and Family Studies
  - Specialization in Marriage and Family Therapy
- Communication
- English
- History

## Career Opportunities

Graduates of Purdue University Calumet's School of Liberal Arts and Social Sciences may work in a number of fields which are as varied as are our programs. Our degrees will equip our students with the skills necessary for success in professional careers such as broadcast journalist, health club director, law enforcement professional, cardiac rehabilitation assistant, social studies teacher, public information officer, Spanish translator, casino manager, technical writer, criminologist, recreational activities director, communication trainer, television director, club manager, customer service manager, English teacher, tourism director, mental health clinic staff member, social welfare agency employee, personal training coordinator, senior citizen facility administrator, probation officer, restaurant owner, child center director, French teacher, employee wellness program supervisor, hotel sales manager and more.

# Department of Behavioral Sciences

**Thomas Pavkov, Interim Head.** *Faculty:* G. M. Casanova; R. L. Cherry; V. B. Damusis (Emeritus); B. J. Davis (Emerita); P. T. Do; L. L. Hecker; J. B. Hill (Emerita); E. V. James; D. R. Kirkpatrick (Emeritus); L. S. Mura (Emerita); D. Nalbone; T. Pavkov; D. L. Pick; K. A. Pierce; J. E. Prebis (Emerita); D. Raden; P. Rodda; S. M. Singer; T. D. Sherrard (Emeritus); A. J. Spector; K. Sweeney; T. S. Trepper; M. P. Vajagich (Emerita); E. Weber; S. J. Wee; J. L. Wetchler

*Academic Advisors:* S. Finke; B. Osmon

*Office Managers:* S. Ison; P. Riddering

The department of behavioral sciences offers students a broad-based liberal education, enabling them to function effectively in a world of rapid change, in careers in such fields as government, business, mental health, child care, gerontology or social services. The department provides students with skills and strategies to understand individual and group behavior, to learn how to relate well to others, and to understand the relationships between social problems and the social environment.

As one of the most diverse academic units on campus, the department offers courses in a variety of disciplines concerned with human behavior: anthropology; child care; human development and family studies; psychology; sociology; criminal justice and gerontology. Certificates, baccalaureate degrees and two master's degree level plans of study are offered by the department.

Internships are offered in the graduate program in marriage and family therapy in an on-campus clinic, our research center the Institute for Social and Policy Research and the Gerontology Center. Off-campus internships are available in a number of human services and non-profit agencies throughout the region. A two-semester practicum experience is required in the gerontology and early childhood development programs. A one-semester field experience is required in criminal justice. Such experiences provide practical experience under supervision and allow first-hand experience and observation of various institutions' responses to human needs and quality of life issues.

The campus Child Center serves as a laboratory for the early childhood development program. The psychology laboratory is a computer-assisted student laboratory which allows students to engage in simulated experiments and analysis of data from classroom experimental projects. The Institute for Social and Policy Research is equipped with an array of tools used to conduct qualitative and quantitative social science research, including computer-assisted telephone and web-based surveys and geographic information systems mapping projects.

## Programs

- Child Development Associate (CDA) Preparation and Advising Program
- Certificate, Infant/Toddler
- Certificate in Gerontology
- Bachelor of Arts, Psychology
- Bachelor of Arts, Sociology, options in General Sociology, Criminal Justice, and Gerontology
- Bachelor of Arts, Human Development & Family Studies; specializations in Child and Family Services, Disability Studies, Early Childhood and Gerontology
- Master of Science in Child Development and Family Studies: Specialization in Human Development and Family Studies
- Masters of Science in Child Development and Family Studies: Specialization in Marriage and Family Therapy
- Post-Baccalaureate Certificate in Early Childhood
- Post-Baccalaureate Certificate in Disability Studies
- Minors in Disability Studies, Early Childhood, Gerontology, Human Services, Psychology, Service Learning, Sociology

## Child Development Associate (CDA) Preparation & Advising Program

(NON-DEGREE) (12 CREDITS)

*CDA stands for the Child Development Associate National Credentialing Program. The purpose of the program is to enhance the quality of child care by defining, evaluating and recognizing the competence of child care providers and home visitors.*

*The program is administered by the Council for Early Childhood Professional Recognition in Washington, D.C.*

*The CDA Credential is a certificate that is awarded to a person who demonstrates competence in caring for young children by successfully completing the CDA assessment process.*

*(Note: Completion of this course work does not award a degree or certificate. However, the courses count toward an associate or a bachelor degree in early childhood development.)*

### Required Coursework

Complete all of the following:

- CDFS 21600 Introduction to Early Childhood Education
- CDFS 21700 Issues in Early Childhood Education  
(May substitute PSY 36100)
- CDFS 23500 CDA Portfolio and Experience

Elective: Choose one appropriate additional course according to your area of focus:

CDFS 30800 Language and Literacy in Early Childhood  
(Appropriate for any of the CDA certificates)

or

CDFS 22800 Developmental Infant & Toddler Care  
(Appropriate only for Infant/Toddler CDA)

## Certificate - Infant/Toddler Certificate

(18 CREDITS)

This certificate is designed for non-traditional students employed full-time.

- BHS 10100-Working with Parents
- CDFS 21000-Intro to Human Development
- CDFS 22800-Developmental Infant and Toddler Care
- BHS 20300-Advanced Infant/Toddler Curriculum
- BHS 20200-Infant/Toddler Supervised Experience
- CDFS 34000-Teaching Very Young Children with Special Needs

## Bachelor of Arts, Psychology

(126 CREDITS)

### 1. Communication (18-21 credits)

ENGL 10000/10400 English Composition I  
ENGL 10500 English Composition II

OR

ENGL 10800 Accel First Yr Compos  
COM 11400 Fund. Speech Comm.  
Foreign Language 10100, 10200, 20100, 20200

### 2. Science and Mathematics (12 credits)

*The required 12 hours will consist of three hours of a laboratory science, three hours of mathematics at the College Algebra (MA 15300) level or higher and three hours of Computer Science (CIS 20400) Lab Science – SCI 10500, BIOL 10100 or BIOL 21300. The remaining three hours may be filled with any Science, Mathematics (above 15300), Logic (PHIL 15000), or non-lab science (F&N 30300) courses.*

### 3. Humanities and Social Sciences (24 credits)

Economics 21000 or 25100  
Psychology 12000  
Sociology 10000 or Anthropology

and one course each from:

Aesthetics  
History  
Literature  
Philosophy (not Logic)  
Political Science

### 4. Psychology and Behavioral Sciences Core (25 credits)

BHS 10300 Freshman Experience in Behavioral Sciences (1 cr)  
BHS 20100 Statistical Methods for the Behavioral Sciences (PSY 50000 accepted)  
PSY 20300 Intro. Research Methods  
PSY 20500 Testing and Measurement  
PSY 31400 Intro. to Learning  
PSY 31100 Human Memory  
PSY 33900 Advanced Social Psych (SOC 34000 accepted)  
PSY 43000 Sys. Theories of Psych.

One of:

PSY 31000 Sensation and Perception Proc.  
PSY 32200 Neuroscience of Motivated Behavior

To be admitted into the following courses student must receive:

A grade of C or better in all PSY courses.

For PSY 20300 and 20500:

A grade of "C" or better in PSY 12000, BHS 20100/PSY 50000 and MA 15300

For PSY 31000, PSY 31100, PSY 31400 and PSY 32200:

A grade of "C" or better in PSY 20300 and PSY 20500

For PSY 33900:

A grade of "C" or better in PSY 20300

For PSY 43000:

A grade of "C" or better in PSY 31100, PSY 31400, and either PSY 31000 or PSY 32200

### 5. Additional Requirements for the Major (15 credits)

Any five courses in Psychology at the 30000 level or above

### 6. Electives or Minor (25-32 credits)

**Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.**

## Psychology Minor

(18 CREDITS)

PSY 12000 Elem. Psychology  
BHS 20100 Statistical Methods for the Behavioral Sciences (PSY 50000 accepted)  
PSY 20300 Intro. Research Methods

*Nine credits of Psychology at 300-500 level*

## Certificate in Gerontology

(27 CREDITS)

*This Certificate is for those who are already working with the elderly and want to have a specialized. Credential in gerontology to enhance their career, or who are considering a change in career. The Certificate would be available to students who do not have a Baccalaureate degree, as well as those who have a Baccalaureate degree in another field of study.*

### 18 Credits to include the following courses:

PSYS 12000 Introduction to Psychology  
OR  
SOC 10000 Introduction to Sociology  
BHS 37500 Physical Aging, Health and Behavior  
SOC 43000 Sociology of Aging  
SOC 43100 Services to the Aged  
SOC 46000 Field Experience in Gerontology  
PSY 36300 Human Development III: Adulthood

### 6 Credits chosen from any one of the following courses:

COM 36500 Communication and Aging  
COM 37100 Communication and Health  
F&N 36000 Nutrition and aging  
FM 25000 Principles of Adult Fitness  
PSY 53500 Psychology of Death and Dying  
SOC 44000 Sociology of Health and Health Care  
Independent Studies on issues relevant to aging  
*3 general elective credits chosen from any university department*

## Bachelor of Arts, Sociology

(126 CREDITS)

*Requirements for all Sociology degrees*

### 1. Communication

ENGL 10000/10400 English Composition I  
ENGL 10500 English Composition II  
OR  
ENGL 10800 Accel First Yr Compos  
COM 11400 Fund. Speech Comm.  
Foreign Language 10100-10200-20100-20200

### 2. Science and Mathematics

*The required 12 hours will consist of three hours of laboratory science, three hours of mathematics or statistics (STAT 13000), and three hours of computer Science (CIS 20400). The remaining three hours may be filled with any Science, Mathematics, Logic (PHIL 15000), or non-lab science (F&N 30300) course.*

### 3. Humanities and Social Sciences

Economics 21000 or 25100  
Psychology 12000  
Sociology 10000 or Anthropology

and one course each from:

Aesthetics  
History  
Literature  
Philosophy (not Logic)  
Political Science

**Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.**

## Bachelor of Arts, General Sociology Option

(126 CREDITS)

### Requirements for Sociology degree plus: (35 credits)

BHS 10300	Freshman Experience in Behavioral Sciences (1 cr.)
SOC 22000	Social Problems
SOC 24500	Field of Sociology
SOC 34000/PSY 33900	General Social Psychology
SOC 38200	Intro. to Methods of Social Research I (BHS 20100 or PSY 50000 accepted)
SOC 38300	Intro. to Methods of Social Research II
SOC 40200	Principles of Sociology*
18 additional credits in Sociology at 30000 level or above	

\*Prerequisite to SOC 40200: 12 hours of Sociology and a 2.25 GPA in all Sociology courses.

### Electives or Minor (30-37 credits)

**Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.**

## Minor in Gerontology

(15 CREDIT HOURS)

15 Credits to include the following courses:

BHS 37500	Physical Aging, Health and Behavior
SOC 43000	Sociology of Aging
SOC 43100	Services to the Aged
SOC 46000	Field Experience in Gerontology
PSY 36300	Human Development III: Adulthood

3 Credits chosen from any one of the following courses

COM 36500	Communication and Aging
COM 37100	Communication and Health
F&N 36000	Nutrition and aging
PSY 53500	Psychology of Death and Dying
SOC 44000	Sociology of Health and Health Care
Independent Studies on issues relevant to aging	

## Bachelor of Arts, Sociology-Criminal Justice Option

(126 CREDITS)

### Requirements for Sociology degree plus: (35 credits)

BHS 10300	Freshman Experience in Behavioral Sciences (1 cr.)
SOC 22000	Social Problems
SOC 24500	Field of Sociology (1 cr.)
SOC 42200	Criminology
POL 34600	Law and Society
POL/SOC 34300	Intro. Criminal Just.
POL/SOC 44300	Practicum Criminal Just.
SOC 38200	Intro. to Methods of Social Research I (BHS 20100 or PSY 50000 accepted)
SOC 38300	Intro. to Methods of Social Research II
SOC 40200	Principles of Sociology**

One of:

HIST 32500	Crime in America
HIST 33600	Organized Crime
POL 35400	Civil Liberties Const.
PSY 35500	Child Abuse Neglect
PSY 42800	Drugs and Behavior
PSY 44300	Aggression and Violence

Two of:

SOC 31400	Race and Ethnic Relations
SOC 41100	Social Stratification
SOC 42100	Juvenile Delinquency
SOC 45300	Intimate Violence
SOC 36400	Child and Family Welfare

\*Prerequisite to major – SOC 10000.

\*\*Prerequisite to SOC 40200: 12 hours of Sociology and a 2.25 GPA in all Sociology courses.

### Electives or Minor (30-37 credits)

**Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.**

## Bachelor of Arts, Sociology-Gerontology Option

(126 CREDITS)

### Requirements for Sociology degree plus: (41 credits)

BHS 10300	Freshman Experience in Behavioral Sciences (1 cr.)
SOC 22000	Social Problems
SOC 24500	Field of Sociology (1 cr.)
SOC 36100	The Institution of Social Welfare
SOC 38200	Intro. to Methods of Social Research I (BHS 20100 or PSY 50000 accepted)
SOC 38300	Intro. to Methods of Social Research II
SOC 40200	Principles of Sociology*
SOC 43000	Sociology of Aging
SOC 43100	Services for the Aged
SOC 46000	Field Exp. Geron.
PSY 36300	Human Develop. III
PSY 53500	Psych. of Death and Dying

Three from:

SOC 26100	Basic Helping Skills for Human Services
SOC 41100	Social Stratification
SOC 44000	Soc. Health and Illness
SOC 45300	Intimate Violence
SOC 46000	Field Exp. Gerontology
SOC 49100	Oriented Research/Studies
SOC 56200	Public Social Services
PHIL 32400	Ethics for the Prof.
PHIL 32500	Ethics and Public Health
COM 365 00	Communication and Aging
COM 37100	Health Com.
F&N 36000	Nutrition for the Aged
PSY 43300	Issues in Dev. Psy

\*Prerequisite to SOC 40200: 12 hours of Sociology and a 2.25 GPA in all Sociology courses.

### Electives or Minor (24-31 credits)

**Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.**

## Sociology Minor

(18 CREDITS)

SOC 10000	Introduction to Sociology
SOC 22000	Social Problems

12 Sociology credits at 30000-50000 level

# Bachelor of Arts, Human Development and Family Studies

(126 CREDITS)

Requirements for all Specializations:

## 1. General Education Requirements (18-21 credits)

### Communication

ENGL 10000/10400 English Composition I

ENGL 10500 English Composition II

OR

ENGL 10800 Accel First Yr Compos

COM 11400 Fund. Speech Comm.

Foreign Language 10100-10200-20100-20200

## 2. Science and Mathematics (12 credits)

The required 12 hours will consist of three hours of laboratory science, three hours of mathematics or statistics (STAT 13000), and three hours of computer Science (CIS 20400). The remaining three hours may be filled with any Science, Mathematics, Logic (PHIL 15000), or non-lab science (F&N 30300) course.

## 3. Humanities and Social Sciences (24 credits)

Economics 21000 or 25100

Psychology 12000

Sociology 10000 or Anthropology

and one course each from:

Aesthetics

History

Literature

Philosophy (not Logic)

Political Science

## Child and Family Services Specialization

### 4. Human Development and Family Studies Core (25 credits)

BHS 10300 Freshman Experience in Behavioral Sciences (1 cr.)

BHS 20100 Statistical Methods for the Behavioral Sciences (PSY 50000 accepted)

SOC 38300 Research Methods

BHS 20500 Intro to Family Dynamics

CDFS 21000 Intro to Human Dev.

SOC 35000 Social Psychology of Marriage

PSY 48000 Practicum (Satisfied w/SOC 30700 or SOC 46000)

(enrolled and completed twice over two semesters for 6 credits)

PSY 43300 Theories in Human Dev.

### 5. Child and Family Services Specialization (18 credits)

SOC 22000 Social Problems

SOC 26100 Basic Helping Skills/Human Services

SOC 30600 Methods in Human Services

SOC 36400 Child and Family Welfare

Two of:

PSY 36100 Human Development I: Infancy & Early Childhood

PSY 36200 Human Development II: Adolescence

PSY 36300 Human Development III: Adulthood

### 6. Electives (6 credits)

Restricted, Two of:

SOC 36100 The Institution of Social Welfare

SOC 44000 Sociology of Health & Illness

WOST 12100 Intro to Women's Studies

COM 31000 Family Communications

PSY 35500 Child Abuse and Neglect

PSY 43500 Intro to Marriage & Family Therapy

PSY 53200 Psychological Disorders of Childhood

PSY 55000 Introduction to Clinical Psychology

## 7. Electives (Open) (16-23 credits)

Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.

## Early Childhood Specialization

### 4. Human Development and Family Studies Core (25 credits)

BHS 10300 Freshman Experience in Behavioral Sciences (1 cr.)

BHS 20100 Statistical Methods for the Behavioral Sciences (PSY 50000 accepted)

SOC 38300 Research Methods

BHS 20500 Intro to Family Dynamics (Fall Only)

CDFS 21000 Intro to Human Development

SOC 35000 Social Psychology of Marriage

CDFS 35400 Practicum I ExL

CDFS 45501 Practicum II ExL

OR

CDFS 45601 Practicum with Infants & Toddlers ExL

PSY 43300 Theories in Human Development

### 5. Early Childhood Specialization (36 credits)

Complete ALL of the courses listed below:

CDFS 21600 Introduction to Early Childhood Education

CDFS 21700 Issues in Early Childhood Education

CDFS 22800 Developmental Infant & Toddler Care

CDFS 30501 Art, Music & Movement in Early Childhood

CDFS 30800 Language & Literacy in Early Childhood

CDFS 31001 Math, Science & Social Studies in Early Childhood

CDFS 33201 Child Care Administration

CDFS 34000 Teaching Very Young Children with Special Needs

CDFS 42100 Children's Social Development

CDFS 43101 Observational Assessment in Early Childhood ExL

PSY 36100 Human Development I: Infancy and Childhood

Complete one course from the following:

EDPS 26000 Introduction to Special Education

F&N 26000 Food & Nutrition in Early Childhood Development Classrooms

PSY 34400 Human Sexuality

PSY 36200 Human Development II: Adolescence

WOST 12100 Introduction to Women's Studies

\*Prerequisite to PSY 43300: PSY 12000, BHS 20500 and PSY 36100 or BHS 20500 and CDFS 21000

Prerequisite to CDFS 35400 and 45501: CDFS 30800, 30501, and 31001

Prerequisite to CDFS 21700: CDFS 21600 or equivalent

Prerequisite to CDFS 30800: Pre or Coreq: CDFS 21600

Prerequisite to CDFS 31001: CDFS 21600, CDFS 30800, PSY 36100 & 1 lab science.

Prerequisite to CDFS 42100: PSY 36100

Prerequisite to CDFS 43101: PSY 36100

### 6. Electives or Minor (4-11 credits)

**Note: This degree does not lead to State of Indiana Teaching Licensure**

Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.

## Gerontology Specialization

### 4. Human Development and Family Studies Core (25 credits)

BHS 10300	Freshman Experience in Behavioral Sciences (1 cr.)
BHS 20100	Statistical Methods for the Behavioral Sciences (PSY 50000 accepted)
SOC 38300	Research Methods
BHS 20500	Intro to Family Dynamics
CDFS 21000	Intro to Human Development
SOC 35000	Social Psychology of Marriage
SOC 46000	Practicum (6 credit hours)
PSY 43300	Theories in Human Development

### 5. Gerontology Specialization (18 credits)

PSY 36100	Human Development I: Infancy & Early Childhood
<b>OR</b>	
PSY 36200	Human Development II: Adolescence
<i>Required:</i>	
PSY 36300	Human Development III: Adulthood
SOC 43100	Services for the Aged
SOC 43000	Sociology of Aging
F&N 36000	Nutrition and Aging
PSY 53500	Psychology of Death and Dying

### 6. Electives (6 credits)

<i>Restricted: Two of:</i>	
WOST 12100	Introduction to Women's Studies
SOC 26100	Basic Helping Skills/Human Services
SOC 30600	Methods in Human Services
SOC 41100	Social Stratification
SOC 44000	Sociology of Health and Illness
COM 36500	Communication and Aging

### 7. Electives (Open) (16-23 credits)

*Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.*

## Disability Studies Specialization

### 4. Human Development and Family Studies Core (25 hours)

Freshman Experience (for incoming freshman only) (1 cr.)	
BHS 20100	Statistical Methods for the Behavioral Sciences (PSY 50000 accepted)
SOC 38300	Research Methods
BHS 20500	Intro. to Family Dynamics
CDFS 21000	Intro. to Human Dev.
SOC 35000	Social Psychology of Marriage
PSY 48000	Practicum (Satisfied w/Soc 30700 or Soc 46000)
PSY 48000	Practicum (Satisfied w/Soc 30700 or Soc 46000)
PSY 43300	Theories in Human Dev. (Prerequisites: PSY 12000, BHS 20500 and PSY 36100 or CDFS 21000 and BHS 20500)

### 5. Disability Studies Specialization (24 hours)

<i>Required (18 hours):</i>	
SOC 26100	Basic Helping Skills/Human Serv
SOC 30600	Methods in Human Services
SOC 36400	Child and Family Welfare
BHS 38000	Disability and the Family Life Cycle
BHS 38200	Disability and Society
BHS 48400	Genetic and Physiological Factors Underlying Developmental Disabilities

*Choose 2 of 3 (6 hours)*

PSY 36100	Human Dev. I: Infancy & Early Childhood
PSY 36300	Human Dev. III: Adulthood
PSY 36200	Human Dev. II: Adolescence

### 6. Electives (9 hours)

*Restricted, Choose 3*

SOC 36100	The Institution of Social Welfare
PSY 35500	Child Abuse and Neglect
SOC 44000	Sociology of Health and Illness
PSY 43500	Intro to Marriage & Family Therapy
CDFS 34000	Teaching Very Young Children with Special Needs
BHS 48600	Honors Seminar in Human Development and Disability ExL (or PSY 48600)
SOC 43000	Sociology of Aging
SOC 37500	Physical Aging, Health, and Behavior

### 7. Electives (Open) (7-14 credits)

*Please note: Two courses in Experiential Learning are required for all students enrolled Fall 2008 and beyond. This is also a requirement for transfer students with more than 2 semesters of enrollment remaining and more than 32 credit hours needed for degree.*

## Post Baccalaureate Certificate — Early Childhood Development

(18 CREDITS)

This certificate is available to students with baccalaureate degrees who are already working with young children, either as family child care providers, or in various center-based capacities, including teaching or administration. It will provide immediate and substantial support to providers coming to the field from other areas of study. The certificate includes coursework in child development, observation and curriculum preparation, and requires supervised practical experience.

PSY 36100	Human Development I or elective (CDFS 42100 or CDFS 43101)
CDFS 21600	Intro. to Early Childhood or elective (CDFS 22800 or CDFS 43101)
CDFS 21700	Issues in Early Childhood or elective (CDFS 42100, CDFS 22800 or CDFS 34000)
CDFS 30800	Language and Literacy
CDFS 47000	Supervised Experience in Early Childhood Programs

### For Acting Administrators

PSY 36100	Human Development I or elective (CDFS 42100 or CDFS 43101)
CDFS 21600	Introduction to Early Childhood or elective (CDFS 30501 or CDFS 22800 or CDFS 43101)
CDFS 21700	Issues in Early Childhood or Elective (CDFS 42100 or CDFS 22800)
CDFS 30800	Language and Literacy
CDFS 33201	Child Care Administration
CDFS 47000	Supervised Experience in Early Childhood Programs

### For Family Childcare Providers

PSY 36100	Human Development I or elective (CDFS 42100 or CDFS 43101)
CDFS 21600	Intro. to Early Childhood or elective (CDFS 30501 or CDFS 22800)
CDFS 21700	Issues in Early Childhood or elective (CDFS 42100 or CDFS 22800)
CDFS 30800	Language and Literacy
CDFS 31001	Science, Math, and Social Studies in Early Childhood
CDFS 47000	Supervised Experience in Early Childhood Programs

### Possible Electives

CDFS 42100	Children's Social Development
CDFS 30501	Art Music & Movement in Early Childhood
CDFS 43101	Observational Assessment in Early Childhood (ExL)
CDFS 22800	Developmental Infant and Toddler Care
CDFS 34000	Teaching Children with Special Needs

*\*Note: Some students may already have coursework that approximates that of some required courses. Alternative courses should enrich the student's familiarity with the topics or issues addressed in the required courses. Alternative courses must be chosen in consultation with program advisors.*

## Post Baccalaureate Certificate — Disability Studies

(24 CREDITS)

A Post-Baccalaureate Certificate in Disability Studies will prepare students to act as a multi-disciplinary practitioner when assisting individuals with disabilities and their families to respond to events that require intervention. The generic competencies of the disabilities studies professional will reflect the continuum of skills necessary to work with persons whose needs arise from problems associated with the occurrence of a wide array of disabilities. These areas include advocacy, occupational therapy, sheltered employment, case management for individuals with disabilities, abuse of those with disabilities, and housing for those with disabilities.

*Disabilities Studies Certificate Program Requirements:*

To be admitted into the Post-Baccalaureate Certificate in Disability Studies program, students must have completed a bachelor's degree. Upon completing the Disability Studies Certificate Program, students must have a Grade Point Average of 2.0 or better to earn their certificate.

*Requirements:*

Total Hour requirement 24 Credit Hours

18 credits to include the following courses:

SOC 26100	Introduction to Social Work
SOC 30600	Case Management in the Human Services
SOC 30700	Practicum in the Human Services
BHS 38200	Disability and Society
BHS 38000	Disability and the Family Life Cycle
BHS 48400	Genetic and Physiological Factors Underlying Developmental Disabilities

6 credits chosen from any one of the following courses

PSY 35500	Child Abuse and Neglect
BHS 48600	Honors Seminar in Human Development and Disability ExL (or PSY 48600)
SOC 44000	Sociology of Health and Illness
CDFS 34000	Teaching Very Young Children with Special Needs
SOC 43000	Sociology of Aging
SOC 37500	Physical Aging, Health, and Behavior

## Minor in Human Services

(18 CREDITS)

A minor in Human Services will prepare students to act as a multi-disciplinary practitioner when assisting individuals, families, and communities to respond to events that require intervention. The generic competencies of the human service professional will reflect the continuum of skills necessary to work with persons whose needs arise from problems within the larger social system or to improve individual social functioning. These areas include crime and delinquency, chemical abuse and addiction, poverty, education, job training and employment, mental illness physical and sexual abuse, homelessness and disability.

*Requirements:*

SOC 22000	Social Problems
SOC 26100	Basic Helping Skills for Human Services
SOC 30600	Case Management in Human Services
SOC 30700	Practicum in Human Services
SOC 36400	Child and Family Welfare

Any three hours from the following:

PSY 35500	Child Abuse and Neglect
SOC 31400	Race and Ethnic Relations
SOC 36100	The Institution of Social Welfare
SOC 41100	Social Stratification
SOC 42100	Juvenile Delinquency
SOC 42200	Criminology
SOC 43000	Sociology of Aging
SOC 45000	Sex Roles in Modern Society

## Minor in Early Childhood

(18 CREDITS BEYOND PSY 36100)

*The prerequisite for this minor is PSY 36100, C or better*

### A. Requirements for Minor in Early Childhood

Development : (Prerequisite for minor: PSY 36100; Grade of "C" or better)

All of the following:

CDFS 21600	Introduction to Early Childhood Education
CDFS 21700	Issues in Early Childhood Education
CDFS 30800	Language & Literacy in Early Childhood II

Notes:

\* Prerequisite for CDFS 21700: CDFS 21600

\* Co-requisite for CDFS 30800: CDFS 21600

### B. Choose one course from the following:

CDFS 22800	Developmental Infant & Toddler Care
CDFS 31001	Math, Science & Social Studies in Early Childhood
CDFS 34000	Teaching Very Young Children with Special Needs
CDFS 42100	Children's Social Development

Notes:

\* Prerequisite for CDFS 31001: CDFS 21600, 30800 and PSY 36100; Co-requisite for CDFS 31001: CDFS 21700, CDFS 30501

\* Prerequisite for CDFS 42100, CDFS 43101: PSY 36100

\* Prerequisite for CDFS 34000: CDFS 21700 or PSY 36100

### C. Choose one course from the following:

F&N 260	Food & Nutrition in Early Childhood Development Classrooms
CDFS 30501	Art, Music & Movement in Early Childhood
CDFS 33201	Administration in Early Childhood Development Programs
CDFS 43101	Observational Assessment in Early Childhood

Notes:

\* Co-requisite for CDFS 30501: CDFS 21600

\* Prerequisite for CDFS 33201: PSY 36100

### D. Practical Internship:

CDFS 35001	Internship in Early Childhood
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## Minor in Disability Studies

(21 CREDITS)

A minor in Disability Studies will prepare students to act as a multi-disciplinary practitioner when assisting individuals with disabilities and their families to respond to events that require intervention. The generic competencies of the disabilities studies professional will reflect the continuum of skills necessary to work with persons whose needs arise from problems associated with the occurrence of a wide array of disabilities. These areas include advocacy, sheltered employment, case management for individuals with disabilities, and housing for those with disabilities. The minor will also serve the needs of individuals who are pursuing pre-professional degree programs in both pre-occupational therapy and pre-physical therapy.

18 credits to include the following courses:

SOC 26100	Introduction to Social Work
SOC 30600	Case Management in the Human Services
SOC 30700	Practicum in the Human Services
BHS 38200	Disability and Society
BHS 38000	Disability and the Family Life Cycle
BHS 48400	Genetic and Physiological Factors Underlying Developmental Disabilities

3 credits chosen from any one of the following courses

- PSY 35500 Child Abuse and Neglect
- BHS 48600 Honors Seminar on Human Development and Disability
- SOC 44000 Sociology of Health and Illness
- CDFS 34000 Teaching Very Young Children with Special Needs
- SOC 43000 Sociology of Aging
- SOC 37500 Physical Aging, Health, and Behavior

## Minor in Service Learning

(15 CREDITS)

Requires 15 credit hours of Coursework as follows:

### Service Learning Core (10 Credits)

- SERV 10100, 1 credit, Required
- SERV 20100, 2 credits, Required
- SERV 30100, 3 credits, Required
- SERV 40100, 4 credits, Required

Any combination of the following that equals 5 or more credits:

### Service Learning Electives (5 Credits)

- SERV 10200, 2 credits
- SERV 10300, 3 credits
- SERV 20100, 2 or 4 credits
- Discipline-Based Service Learning Course(s), 1-5 credits

## Master of Science in Child Development and Family Studies: Specialization in Human Development and Family Studies

(36 CREDITS)

### 1. Common Core

- CDFS 60200 Advanced Family Studies
- CDFS 61500 Research Methods in Child and Family Studies
- CDFS 61800 Program Development and Evaluation
- CDFS 68500 Current Research Topics in Child Development & Family Studies
- PSY 60500 Applied Multivariate Statistics

### 2. Select one of the following Tracks:

#### A. Human Service Professions Track

- CDFS 49000/59000 Administration of Social Service Not-for-Profit Agencies
- CDFS 68000 Professional Issues for Child and Family Specialists
- CDFS 59000/69800 6-hours of Directed Research or M.S. Thesis

#### B. Human Development Studies Track

- SOC 59100 Qualitative Analysis
- CDFS 61600 Theory in Child and Family Studies
- CDFS 59000/69800 6-hours of Directed Research or M.S. Thesis

### 3. Electives

Nine Credit Hours of electives representing one of the following specialties at the 40000-60000 level or other courses in consultation with your advisor:

- Early Childhood Development Area
- Child & Family Studies Area
- Disabilities Studies Area
- Gerontology Area

### 4. Completed Directed Research Project or Thesis and Oral Defense of Thesis

## Master of Science in Child Development and Family Studies: Specialization in Marriage and Family Therapy

(61 CREDITS)

(Accredited by the Commission on Accreditation for Marriage and Family Therapy Education of the American Association for Marriage and Family Therapy)

### Special Admission Requirements

1. A 1000-word autobiographical statement demonstrating that the student has adequate preparation.
2. Combined verbal and math Graduate Record Examination score of 1000.

Degree Requirements

### 1. Required courses:

- CDFS 59000 Couple Therapy
- CDFS 60100 Adv. Child Development
- CDFS 60300 Theories Fam. Therapy
- CDFS 61500 Research Methods
- CDFS 65700 Social Constructionist Family Therapies
- CDFS 66000 Family Therapy Skills
- CDFS 66300 Structural Fam. Therapies
- CDFS 66500 Trans. Fam. Therapies
- CDFS 66700 Prac. in Marriage Counseling (2 sem.)
- CDFS 66900 Practicum Fam. Therapy (3 sem.)
- CDFS 67100 Sex Therapy
- CDFS 68000 Professional Issues
- CDFS 69800 Research M.S. Thesis (6 credits)
- CDFS Elective
- PSY 60500 Applied Multivariate Analysis
- PSY 67300 Psy. Behavior Disorders

### 2. 500 hours of face-to-face contact with clients

### 3. Completed thesis and oral defense of thesis

# Department of Communication and Creative Arts

**Yahya R. Kamalipour, Head.** *Faculty:* L. Artz; C. Blohm (RTV Production Coordinator/Studio Supervisor); Ken Bronowski; T.M. Carilli; C. Channing; M. Dakich (Emeritus); D.M. Dunn; C.M. Gillotti; L.J. Goodnight; P.Hales; N.A. Nemeth; M.B. O'Connor; T.J. Roach; W.L. Robinson; L.R. Willer; Y.Zhang

*Academic Advisor:* L. Bilyk

*Office Manager:* K. Mihalic

Programs in the department of communication and creative arts prepare students to work in careers that require exceptional skill in dealing with people. The department offers broad curricula ranging from communication and media studies to the performing and creative arts, with strong liberal arts education supporting specific preparation for a variety of careers in communication professions. Students can select minors inside or outside the department to supplement their majors, enhance their professional, creative and artistic skills, and improve their future employment options.

Communication is a highly diverse and broad discipline. Hence, communication graduates find careers in such fields as advertising, broadcasting, corporate communication, education, journalism, marketing, public relations, research sales, personnel development, publishing, and visual communication.

Experiential learning, internship and practicum options give communication majors the opportunity to expand their learning and career opportunities by engaging in creative and professional projects and working directly with professionals in organizations such as radio and television stations, cable TV operations, advertising agencies, print media outlets, and public relations firms.

The fully equipped radio and television studies facilities on campus allow students hands-on experience in producing a variety of video and radio-TV programs. Students interested in journalism can work for the campus newspaper, *Purdue Chronicle*, Calumet Perspective (a weekly TV program aired on the NPR-affiliated Lakeshore TV and WCPX, channel 38 in Chicago), and online radio streaming, WPUC.

## Programs

- Bachelor of Arts in Communication, with options in General Communication, Organizational Communication, Advertising, Broadcasting, Journalism, Public Relations, and Visual Communication Design
- Minors in Advertising, Broadcasting, General Communication, Health Communication, Journalism, Media and Culture, Organizational Communication, Political Communication, Public Relations, Technical Communication, Theater, or Visual Communication Design
- Master of Arts, Communication Studies

*The Following General Education Courses (54-57 credits) are required for the*

## Bachelor of Arts Degrees:

- ENGL 10000/10400-10500 or 10800
- COM 11400
- CIS 20400
- MA or STAT
- LAB Science
- PHIL 15000 or F&N 30300 or any MA/SCI/STAT/CIS
- Literature
- Philosophy (not Logic)
- History
- Aesthetics (A&D 25500, ENGL 40500, MUS 25000, or THTR 20100)
- Economics 21000
- Political Science
- Psychology 12000
- Sociology 10000 or Anthropology
- Foreign Language 12-hour sequence:  
FR, GER, SPAN, or JAP (10100, 10200, 20100, 20200)

B.A. IN COMMUNICATION (MEDIA STUDIES)

## Advertising

126 CREDIT HOURS REQUIRED FOR GRADUATION

### A. General Education Requirements (54-61 credits) Plus:

### B. Department Core (7-9 credits)

- COM 10300 Freshman Seminar in Communication  
(or other Freshman Seminar Course 1-3 cr. hrs.)
- COM 20100 Intro to Media Studies
- COM 22800 Intro to Communication Studies

### C. Advertising Core (33 credits)

- COM 25300 Intro to Public Relations
- COM 25600 Introduction to Advertising
- COM 30900 Visual Communication
- COM 32500 Interviewing: Principles and Practice

- COM 33100 Audio Production
- COM/MGMT 42900 Advertising Campaigns
- COM 43900 Focus Group Research
- COM 44600 Advertising Management
- MGMT 42800

- COM 44800 Applied Mass Media Research
- MGMT 10100 Introduction of Business
- BA 22400 Principles of Marketing

### D. Choose 6 of the Following Courses (18 credits)

- A&D 22200 Introduction to Photography
- COM 25500 Intro to News Reporting and Writing
- COM 30000 Intro to Communication Research Methods
- COM 31800 Principles of Persuasion
- COM 32700 International Communication
- COM 33200 Television Production

COM 35200	Mass Communication Law
COM 40300	Communication Ethics
COM 43600	Script Writing
COM 44300	Advertising Media
COM 46500	Visual Aesthetics in Television and Film
MGMT 42100	Promotions Management
MGMT 42400	Consumer Behavior

### Electives (5-14 credits)

B.A. IN COMMUNICATION (MEDIA STUDIES)

## Broadcasting

126 CREDIT HOURS REQUIRED FOR GRADUATION

### A. General Education Requirements (54-61 credits) Plus:

#### B. Department Core (7-9 credits)

COM 10300	Freshman Seminar in Communication (or other Freshman Seminar Course 1-3 cr. hrs.)
COM 20100	Intro to Media Studies
COM 22800	Intro to Communication Studies

#### C. Broadcasting Core (24 credits)

COM 30900	Visual Communication
COM 33100	Audio Production
COM 33200	Television Production
COM 35200	Mass Communication Law
COM 40300	Communication Ethics
COM 43600	Script Writing
COM 44100	Advanced Television Production
COM 44500	Television Editing

#### D. Choose 6 of the Following Courses (18 credits)

A&D 22200	Introduction to Photography
COM 25300	Intro to Public Relations
COM 25500	Intro to News Reporting and Writing
COM 30000	Intro to Communication Research Methods
COM 31800	Principles of Persuasion
COM 32500	Interviewing: Principles and Practice
COM 32700	International Communication
COM 33000	Theories of Mass Communication
COM 34700	Radio-TV Performance
COM 35300	Problems in Public Relations
COM/MGMT 42900	Advertising Campaigns
COM 44600	Advertising Management
MGMT 42800	
COM 44800	Applied Mass Media Research
COM 46500	Visual Aesthetics in Television & Film

### E. Electives (14-23 credits)

B.A. IN COMMUNICATION (COMMUNICATION STUDIES)

## General Communication

126 CREDIT HOURS REQUIRED FOR GRADUATION

### A. General Education Requirements (54-61 credits) Plus:

#### B. Department Core (7-9 credits)

COM 10300	Freshman Seminar in Communication (or other Freshman Seminar Course 1-3 cr. hrs.)
COM 20100	Introduction to Media Studies
COM 22800	Introduction to Communication Studies

#### C. Communication Studies Core (27 credits)

COM 21400	Theories of Interpersonal Communication
COM 22500	Intro to Rhetoric and Social Influence

### OR

COM 31900	The Rhetorical Tradition
COM 30000	Intro to Communication Research Methods
COM 30100	Applied Communication Research
COM 31400	Advanced Public Speaking

### OR

COM 32300	Business & Professional Speaking
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### OR

COM 34300	Oral Interpretation
COM 31800	Principles of Persuasion
COM 32000	Small Group Communication
COM 32500	Interviewing: Principles and Practice
COM 42000	Intro to Organizational Communication

### D. Choose 3 of the following Communication courses at 30000 level or higher (9 credits)

COM 30900	Visual Communication
COM 31000	Family Communication
*COM 31400	Advanced Public Speaking
*COM 31900	The Rhetorical Tradition
COM 32200	Communication and Leadership
*COM 32300	Business & Professional Speaking
COM 32600	Speech Writing
COM 33000	Theories of Mass Communication
COM 33100	Audio Production
COM 33200	Television Production
*COM 34300	Fundamentals of Oral Interpretation
COM 34700	Radio and TV Performance
COM 35200	Mass Communication Law
COM 36500	Communication and Aging
COM 37100	Health Communication
COM 40300	Communication Ethics
COM 41800	Communication and Gender
COM 43600	Scriptwriting
COM 43700	Performance Practicum
COM 44600/ MGMT 42800	Advertising Management
COM 47000	Women in the Media
COM 49000	Internship in Communication
COM 49100	Special Topics in Communication

\* May use only if course was not used in category "C"

### E. Electives (20-29 credits)

B.A. IN COMMUNICATION (MEDIA STUDIES)

## Journalism

126 CREDIT HOURS REQUIRED FOR GRADUATION

### A. General Education Requirements (54-61 credits) Plus:

#### B. Department Core (7-9 credits)

COM 10300	Freshman Seminar in Communication (or other Freshman Seminar Course 1-3 cr. hrs.)
COM 20100	Intro to Media Studies
COM 22800	Intro to Communication Studies

#### C. Journalism Core (27 credits)

COM 25500	Intro to News Reporting and Writing
COM 30500	News Editing
COM 30600	Advanced News Reporting and Writing
COM 30900	Visual Communication
COM 33000	Research and Theory in Mass Media
COM 35200	Mass Communication Law

- COM 40300 Communication Ethics
- COM/ENGL 45100 Magazine Journalism
- A&D 22200 Introduction to Photography

**D. Choose 4 of the Following Courses (12 credits)**

- COM 25300 Intro to Public Relations
- COM/ENGL 30200 Publication Design
- COM 32500 Interviewing: Principles & Practice
- COM 32700 International Communication
- COM 33100 Audio Production
- COM 33200 Television Production
- COM 33400 Journalism for the Electronic Media
- COM 35300 Problems in Public Relations
- COM 43600 Script Writing
- COM 44100 Advanced Television Production
- COM 44600 Advertising Management
- MGMT 42800
- COM 46000 Advanced Public Relations
- COM 49000 Internship in Communication
- ENGL 40600 Review Writing

**E. Electives (17-26 credits)**

B.A. IN COMMUNICATION (COMMUNICATION STUDIES)

## Organizational Communication

126 CREDIT HOURS REQUIRED FOR GRADUATION

**A. General Education Requirements (54-61 credits) Plus:**

**B. Department Core (7-9 credits)**

- COM 10300 Freshman Seminar in Communication (or other Freshman Seminar Course 1-3 cr. hrs.)
- COM 20100 Intro to Media Studies
- COM 22800 Intro to Communication Studies

**C. Organizational Communication Core (30 credits)**

- COM 21400 Theories of Interpersonal Communication
- COM 22500 Intro to Rhetoric and Social Influence
- OR**
- COM 31900 The Rhetorical Tradition
- COM 25300 Intro to Public Relations
- COM 30000 Intro to Communication Research Methods
- COM 31400 Advanced Public Speaking
- OR**
- COM 32300 Business & Professional Speaking
- OR**
- COM 34300 Oral Interpretation
- COM 31800 Principles of Persuasion
- COM 32000 Small Group Communication
- COM 32500 Interviewing: Principles and Practice
- COM 42000 Intro to Organizational Communication
- BHS 20100 Statistical Methods for the Behavioral Sciences (*PSY 50000 accepted*)

**D. Choose 2 of the Following Courses (6 credits)**

- COM 25500 Intro to News Reporting and writing
- COM 30100 Applied Communication Research
- COM 32200 Communication and Leadership
- COM 32600 Speech Writing
- COM 37100 Health Communication
- COM 40300 Communication Ethics
- COM 41800 Communication and Gender
- COM 44600 Advertising Management
- MGMT 42800

- ENGL 42000 Business Writing
- OBHR 33000 Intro to Organizational Behavior
- OBHR 43100 Human Resource Management
- OLS 37500 Training Methods
- OLS 47400 Conference Leadership Training
- OLS 47700 Conflict Management
- OLS 57400 Managerial Training & Development
- PHIL 32400 Ethics for the Professions
- PSY 37300 Psychology in Industry
- PSY 37400 Organizations & Behavior

**E. Electives (20-29 credits)**

B.A. IN COMMUNICATION (MEDIA STUDIES)

## Public Relations

126 CREDIT HOURS REQUIRED FOR GRADUATION

**A. General Education Requirements (54-61 credits) Plus:**

**B. Department Core (7-9 credits)**

- COM 10300 Freshman Seminar in Communication (or other Freshman Seminar Course 1-3 cr. hrs.)
- COM 20100 Intro to Media Studies
- COM 22800 Intro to Communication Studies

**C. Public Relations Core (39 credits)**

- A&D 22200 Intro to Photography
- COM 22500 Intro to Rhetoric & Social Influence
- OR**
- COM 31900 The Rhetorical Tradition
- COM 25300 Intro to Public Relations
- COM 25500 Intro to News Reporting and Writing
- COM 30000 Intro to Communication Research Methods
- OR**
- COM 33000 Theories of Mass Communication
- COM 30500 News Editing
- COM 30600 Advanced News Reporting and Writing
- COM 31400 Advanced Public Speaking
- OR**
- COM 32600 Speech Writing
- OR**
- COM 34300 Oral Interpretation
- COM 31800 Principles of Persuasion
- COM 32500 Interviewing: Principles and Practice
- COM 35300 Problems in Public Relations
- COM 43900 Focus Group Research
- COM 46000 Advanced Public Relations

**D. Choose 2 of the Following Courses (6 credits)**

- COM 21400 Comparative Theories of Interpersonal Com
- COM 25000 Mass Communication and Society
- COM 32000 Small Group Communication
- COM 32700 International Communication
- COM 33100 Audio Production
- COM 33200 Television Production
- COM 35200 Mass Communication Law
- COM 42000 Intro to Organizational Communication
- COM 44600 Advertising Management
- MGMT 42800

**E. Electives (11-20 credits)\***

\*Suggested Minors: English Literature, Marketing

## Visual Communication Design

126 CREDIT HOURS REQUIRED FOR GRADUATION

*\*\*Changes to curriculum in progress – see department*

### A. General Education Requirements (54-61 credits) Plus:

#### B. Department Core (7-9 credits)

- COM 10300 Freshman Seminar in Communication  
(or other Freshman Seminar Course 1-3 cr. hrs.)
- COM 20100 Intro to Media Studies
- COM 22800 Intro to Communication Studies

#### C. Visual Communication Design (VCD) Foundation (12 credits)

Visual Communication Design (VCD) Foundation

#### D. Visual Communication & Graphic Arts Core (3 credits)

- A&D 11200 Graphic Arts I: Typography
- A&D 20400 Graphic Arts II: Digital Imaging
- A&D 40300 Portfolio Process & Presentation
- COM 30900 Visual Communication
- COM 44600 Advertising Management
- MGMT 42800
- CGT 11100 Design for Visualization and Communication
- CGT 14100 Internet Foundations, Technologies & Development
- CGT 21600 Vector Imaging for Computer Graphics
- CGT 35300 Principles of Interactive & Dynamic Media (Flash)
- CGT 30800 Pre-Press Production

#### D. Choose 6 of the Following Courses (18 credits)

- A&D 10500 Design I
- A&D 10600 Design II
- A&D 11300 Basic Drawing
- A&D 11400 Drawing II
- CGT 11700 Illustrating for Visualization & Comm
- CGT 14100 Internet Foundations, Technologies & Development
- CGT 21100 Raster Imaging for Computer
- COM 25300 Intro to Public Relations
- COM 31400 Advanced Public Speaking
- COM 31500 Speech Com of Technical Information
- COM 32300 Business & Professional Speaking
- COM 31800 Principles of Persuasion
- COM 32000 Small Group Communication
- COM 32500 Interviewing: Principles & Practice
- COM 35200 Mass Communication Law
- COM 40300 Communication Ethics
- COM 44600 Advertising Management
- PSY 33900 Advanced Social Psychology
- PSY 38600 Consumer Behavior

### MINORS IN COMMUNICATION STUDIES

## General Communication Minor

18 CREDIT HOURS

- COM 11400 Fundamentals of Speech Communication
- COM 20100 Introduction to Media Studies
- COM 21400 Theories of Interpersonal Communication
- COM 22500 Introduction to Rhetoric and Social Influence
- COM 31800 Principles of Persuasion

*Any COM course at 30000 or 40000 level*

## Health Communication Minor

15 CREDIT HOURS

### Required (4 classes or 12 credits)

- COM 21400 Theories of Interpersonal Communication
- COM 36500 Communication and Aging
- COM 37100 Health Communication
- PHIL 32400 Ethics for the Professions
- OR**
- PHIL 32500 Ethics and Public Health

### Elective (1 class or 3 credits)

- BIOL 12500 Invitation to Human Biology
- SOC 44000 Sociology of Health and Illness
- PSY 53500 Psychology of Death and Dying
- COM/MGMT 42900 Advertising Campaigns
- MGMT 42100 Promotions Management
- MGMT 42400 Consumer Behavior

## Organizational Communication Minor

15 CREDIT HOURS

### Required (3 classes or 9 credits):

- COM 32000 Small Group Communication
- COM 32500 Interviewing: Principles & Practice
- COM 42000 Intro to Organizational Communication

### Electives (2 classes or 6 credits):

- COM 21400 Interpersonal Communication
- COM 30000 Intro to Communication Research Methods
- COM 31800 Principles of Persuasion
- COM 32200 Leadership in Organizations
- COM 32300 Business and Professional Speaking

## Political Communication Minor

18 CREDIT HOURS

### Required (4 classes or 12 credits)

- COM 31800 Principles of Persuasion
- COM 51700 Political Communication
- POL 20000 Introduction to Political Science
- POL 31400 The Presidency and the Policy Process
- OR**
- POL 31500 Public Opinion and Elections

### Electives (2 classes or 6 credits)

- COM 20100 Introduction to Media Studies
- COM 22800 Intro to Communication Studies
- COM 22500 Introduction to Rhetoric and Social Influence
- COM 31900 The Rhetorical Tradition
- COM 44600 Advertising Management
- MGMT 42800
- POL 13000 Introduction to International Relations
- POL 35400 Civil Liberties and the Constitution

## Technical Communication Minor

15 CREDIT HOURS

### Required (4 courses or 12 credits):

- COM 31500 Speech Communication of Technical Information
- COM 32500 Interviewing: Principles & Practice
- ENGL 22000 Technical Report Writing

ENGL 42000 Business Writing  
**OR**  
ENGL 42300 Technical Publications Writing

**Elective (1 course or 3 credits):**

COM 20100 Intro to Media Studies  
COM \_\_\_\_\_

MINORS IN MEDIA STUDIES

## Advertising Minor

18 CREDIT HOURS

**Required (4 classes or 12 credits)**

COM 25600 Introduction to Advertising  
COM/MGMT 42900 Advertising Campaigns  
COM 44600 Advertising Management  
MGMT 42800  
BA 22400 Principles of Marketing

**Electives (2 classes or 6 credits)**

COM 25300 Introduction to Public Relations  
COM 30000 Intro to Comm Research Methods  
**OR**  
COM 44800 Applied Mass Media Research  
COM 30900 Visual Communication  
COM 44300 Advertising Media  
MGMT 42100 Promotions Manager  
MGMT 42400 Consumer Behavior

## Broadcasting Minor

18 CREDIT HOURS

**Required (4 classes or 12 credits)**

COM 30900 Visual Communication  
COM 33100 Audio Production  
COM 33200 Television Production  
COM 44100 Advanced Television Production

**Electives (2 classes or 6 credits)**

COM 34700 Radio and TV Performance  
COM 44600 Advertising Management  
MGMT 42800  
COM 43600 Script Writing  
COM 44500 Television Editing

## Journalism Minor

18 CREDIT HOURS

**Required (4 classes or 12 credits):**

COM 20100 Introduction to Media Studies  
COM 25500 Introduction to News Reporting and Writing  
COM 30500 News Editing  
COM 30600 Advanced News Reporting and Writing

**Electives (2 classes or 6 credits):**

COM/ENGL 30200 Publications Design  
COM 32500 Interviewing: Principles & Practice  
COM 33400 Journalism for Electronic Media  
COM 35200 Mass Communication Law  
COM 40300 Communication Ethics  
COM/ENGL 45100 Magazine Journalism  
ENGL 40600 Review Writing

## Media and Culture Minor

18 CREDIT HOURS

**Required (4 classes or 12 credits):**

COM 23600 Media and Culture  
COM 25000 Mass Communication and Society  
COM 33000 Theories of Mass Communication  
COM 44800 Applied Mass Communication Research  
**OR**  
COM 46300 Mass Media Criticism

**Electives (2 classes or 6 credits):**

COM 22500 Introduction to Rhetoric and Social Influence  
COM 31800 Principles of Persuasion  
COM 32700 International Communication  
COM 47000 Women and the Media  
COM 47500 Ethnic Identity and Film  
COM 49000 Special Topics in Communication

## Public Relations Minor

18 CREDIT HOURS

**Required (4 classes or 12 credits):**

COM 25300 Introduction to Public Relations  
COM 25500 Introduction to News Reporting and Writing  
COM 35300 Problems in Public Relations  
COM 46000 Advanced Public Relations

**Electives (2 classes or 6 credits):**

A&D 22200 Introduction to Photography  
COM 22500 Intro to Rhetoric & Social Influence  
**OR**  
COM 31900 The Rhetorical Tradition  
COM 30500 News Editing  
COM 30600 Advanced News Reporting and Writing  
COM 31800 Principles of Persuasion  
COM 32500 Interviewing: Principles & Practice  
COM 43900 Focus Group Research

## Theatre Minor

15 CREDIT HOURS

**Required (4 classes or 12 credits):**

THTR 20100 Theatre Appreciation  
THTR 23800 Acting II (with Theatre 138 as pre-requisite)  
THTR 34000 Play Production and Direction  
COM 34300 Fundamentals of Oral Interpretation

**Electives (2 classes or 6 credits):**

COM 21300 Voice and Diction  
COM 35400 Radio and TV Performance  
COM 43600 Scriptwriting  
COM 43700 Performance Practicum  
ENGL 38300 Modern Drama  
ENGL 44200 Shakespeare  
THTR \_\_\_\_\_

## Visual Communication Design Minor

18 CREDIT HOURS

### Required (4 classes or 12 credits):

A&D 11200	Graphic Arts I: Typography
A&D 20400	Graphic Arts II: Digital Imaging
COM 30900	Visual Communication
CGT 11100	Design for Communication and Visualization

### Electives (2 classes or 6 credits):

A&D 10500	Design I
A&D 10600	Design II
A&D 11300	Basic Drawing
A&D 11400	Drawing II
A&D 22200	Intro to Photography
COM 31800	Principles of Persuasion
COM 32500	Interviewing: Principles & Practice
COM 44600	Advertising Management
MGMT 42800	

## Master of Arts in Communication

36 CREDITS

The Master's degree program within the Department of Communication and Creative Arts at Purdue University Calumet offers a broad range of courses covering theories and research methodologies in the following areas: mass communication, interpersonal communication, organizational communication, performance studies, political communication, and rhetoric. The program is highly flexible and allows each graduate student to plan his/her course of study in consultation with a graduate faculty or advisor. After admission into the program, students will meet with advisor to determine their course of study based on their interests and professional goals.

The program was originally designed to meet the needs of individuals who live and work in northwest Indiana and who want to complete advanced courses of study in communication studies. Today, a diverse student body—including international—is enrolled in the program. Numerous graduate students have successfully completed the program to qualify for career advancement, to prepare for doctoral study, or to satisfy their own curiosity about the most fundamental human behavior:

### Communication.

#### Admission Requirements (Degree seeking students)

1. Complete on-line application <http://www.purduecal.edu/gradschool>
2. Three letters of recommendation
3. Applicant's statement of purpose
4. Two copies of official transcripts from all colleges/universities attended
5. Pay application fee on-line when submitting application

#### Admission Process

##### Official Admission

1. An undergraduate grade point average of 3.0, based on a 4.0 scale.
2. An undergraduate degree in Communication, related disciplines, or strong minor.
3. Completion of regular application process (application form, application fee, 2 copies of official transcripts from all colleges/universities attended, 3 letters of recommendation, statement of purpose).

##### Conditional Admission

1. A prospective student whose overall undergraduate GPA is below 3.0, may be admitted conditionally. He/she is required to maintain a 3.0 graduate index for the first 9-12 credit hours in order to continue in the program. The department may pose other requirements for official admission.
2. Any prospective student may enroll in graduate-level courses, prior to applying for official admission into the graduate program, by completing a temporary (Post-Baccalaureate application form (on-line). These courses (limited to 4 graduate-level courses or 12 credit hours) may be applied toward the degree requirements upon official admission.

### Required Coursework

1. All graduate students must complete either COM 58200 or COM 58400 regardless of their program emphasis.
2. A total of 36 credit hours are required for completion of the master's program.
  - 9 hours of Theory courses
  - 9 hours of Application/Research Methods courses
  - 15 hours of elective work

*Students may take graduate level courses outside the department in consultation with their advisors. Please note that no more than 9 hours may be taken outside the department.*

*Students are permitted two independent studies/directed readings in the course of their studies, which will be listed as a COM 59000 course.*

*Student may take no more than 6 credit hours at the 40000 level in consultation with their advisors.*

### Advisor Selection/Examination Committee

1. Upon completion of 9 credit hours, student must select a graduate faculty mentor/advisor (examination committee chair).
2. The student and the advisor will plan a course of study for the remaining 27 credit hours.
3. Prior to the completion of the 24th credit hour, students must select two remaining committee members for their advisory committees.
4. The student and the committee will discuss and determine an appropriate graduation examination format. Usual options include:
  - Comprehensive Exams
  - Conference Quality Paper
  - Performance/Creative Project
  - Thesis

### Transfer of Credits

No more than 9 credits (3 courses) from other accredited institutions, taken within 10 years prior to completion of degree program, may be accepted at the discretion of the Department.

### More Information

For inquiries and/or further information about the Department, Faculty, Facilities, Assistantships, Courses, and degree offerings, visit our Web site [www.purduecal.edu/ccca](http://www.purduecal.edu/ccca) or contact the Department at (219) 989-2393.

## Master of Arts in Communication

### Required Courses:

COM 58200	Descriptive/Exp. Research
<b>OR</b>	
COM 58400	Historical/Critical Research

### Nine hours of THEORY from the courses listed below:

COM 50800	Nonverbal Communication
COM 51200	Interpersonal Communication
COM 51700	Communication & Politics
COM 51800	Persuasion
COM 52000	Small Group Communication
COM 52100	Rhetoric
COM 53200	Telecommunication Systems Management
COM 53400	Comparative Telecommunication
COM 54500	Oral Interpretation
COM 56000	Rhetoric & Mass Media
COM 57400	Organizational Communication
COM	Communication Elective *

### Nine hours of RESEARCH METHODS/APPLICATION from courses listed below:

COM 51500	Persuasion & Social Movements
COM 52500	Advanced Interviewing
COM 53100	Special Topics in Mass Com
COM 53300	Documentary Television
COM 53600	Radio & Television Writing
COM 53700	Educational/Institutional Media
COM 54000	Advanced Oral Interpretation

- COM 54100 Ensemble Interpretation
- COM 55900 Current Trends in Mass Com Research
- COM 58300 Research & Assessment in Orgs
- COM Communication Elective\*
- COM Communication Elective\*

*\*Depending on the topic and approach, the following courses could fulfill requirements in the above categories. Students need to get the faculty member's approval to count one of the following as either Theory or Research:*

- COM 61200 Seminar in Interpersonal Communication
- COM 62100 Seminar in Rhetoric
- COM 63200 Seminar in Mass Communication
- COM 67400 Seminar in Organizational Communication

*Fifteen (15) hours of elective coursework  
(Please note that no more than 9 hours may be taken outside the department.)*

# Department of English and Philosophy

**Daniel Punday, Head.** *Faculty:* D.H. Barbour; K. Bishop-Morris; C. Boiarsky; L.A. Bryant; J. Campbell; M., Choudhury; M. M. Cleland (Emerita); R. Conroy; D.J. Detmer; M.K. Dobberstein; M. Errihani; C.D. Fewer; C.B. Gartner (Emerita); T.R. Koenig (Emeritus); M. Letcher; M. Mabrito; Z.B. Mistri; P.A. Moran (Emerita); C. Morrow; J. Rowan; E.S. Schlossberger; R.L. Selig (Emeritus); C.S. Stacy (Emeritus); S. Zinaich

*Academic Advisor:* J. Navarro

*Office Manager:* L. Kubacki

The Department of English and Philosophy offers students from all majors in the university coursework in literature, writing and philosophy. The mission of the department is to help students learn to think critically and in-depth about the important issues involved in interpersonal relationships and to communicate their thinking in writing.

In freshman reading and writing courses, students are introduced to the demands of college reading and writing so that they will be prepared for the rest of their academic careers and for their lives beyond college. English literature and teaching majors take a variety of literature courses to prepare for careers in teaching or the professions, or to prepare for further, graduate-level study of literature. Writing majors learn the practical aspects of communicating on the job, in business or in industry, to prepare for careers in publishing, editing, writing, and technical communication.

Philosophy majors develop excellent critical and analytical abilities by studying traditional questions that we as humans have long considered, including questions about our place in the universe, the meaning of a good life, and the nature and value of knowledge.

Both English and Philosophy majors are prepared for careers in business, industry, and the professions with excellent communication skills, fine research methods, and backgrounds in the best thinking and writing that humans have been capable of throughout history.

The program for the master's degree in English allows students to study such areas as English and American literature, language arts teaching, linguistics, literary theory, and rhetoric and composition.

**Internships and Cooperative Education.** The practical nature of majors in English and philosophy is supplemented by internships in local businesses and government agencies and cooperative education experiences, alternating work and study experiences.

**Supporting Facilities.** The Writing Tutorial Center helps students throughout the university who wish to improve their writing. The department's computer labs offer writing students opportunity for classroom instruction in word processing and the best technology for producing and editing writing, so that students will know how to use technology to write when they finish their college careers.

## Programs

- Bachelor of Arts, English, options in Literature, Writing, Teaching
- English as a Second Language (ESL) Program
- Certificate in Writing — Interactive Media
- Minor in English
- Bachelor of Arts, Philosophy
- Minor in Philosophy
- Master of Arts, English

## The English Language Program

The English Language Program (ELP) is an academic, intensive English program that aims primarily at assisting international students in developing their English language proficiency to the level needed to pursue their education at Purdue University Calumet. The academic year for ELP students consists of three sessions: Fall Semester; Spring Semester; and Summer Semester. The classes include 1) reading, 2) writing and grammar, 3) speaking and listening, and 4) an elective. Students are given placement tests and are enrolled in one of three levels:

- Level 1, Low-intermediate
- Level 2, High-intermediate
- Level 3, Advanced

Program Structure	Fall Semester (15 weeks)	Spring Semester (15 weeks)	Summer Semester (8 weeks)
Reading	6 hours / week	6 hours / week	6 hours / week
Writing/Grammar	6 hours / week	6 hours / week	12 hours / week
Speaking/Listening	6 hours / week	6 hours / week	6 hours / week
Elective	3 hours / week	6 hours / week	N / A
<b>Total Hours/Week</b>	<b>21 hours / week</b>	<b>21 hours / week</b>	<b>24 hours / week</b>

At the end of each session—if a student meets the requirements of the level—he or she advances to the next level, or, as is the case with a Level 3 student, into mainstream university courses at Purdue Calumet.

## Students

All of our students are full-time, studying on F-1 visas, and wishing to start undergraduate and graduate programs in the United States. Upon successful completion of the ELP, undergraduate students are automatically matriculated into degree programs. Graduate students, however, must also pass the TOEFL with a minimum score of 18 writing, 18 speaking, 14 listening, 19 reading, and a total score of 77.

## ELP Placement and Exit Criteria

### PLACEMENT INTO ENGLISH LANGUAGE PROGRAM (ELP)

New students who join ELP are assessed and placed into pre-academic courses designed to help them bring their English proficiency skills to a level at which they can enroll in regular academic courses.

Placement into one of the three levels of proficiency in the English Language Program is based on a placement test conducted at the beginning of each semester. ETS's SLEP test (which consists of a listening and a reading / grammar sections), is used for placement. This test is complemented by a writing assignment and an interview. Students will be placed in one of three proficiency levels:

—Level 1 (Low-intermediate) —Level 2 (Intermediate) —Level 3 (Advanced)

*A student placed in level 2, for example, can expect to spend two semesters of English language study in ELP.*

## Exiting ELP

There are two ways to exit ELP and matriculate into regular degree programs:

A minimum iBT score of 79 (or 6.5 in IELTS) and passing all ELP classes.

**OR**

Successful completion of the advanced level of ELP.

*TOEFL and IELTS are not required of undergraduate ELP students; however, these tests still remain in place as requirements for admission into degree programs at Purdue University Calumet.*

## Hybrid Program

Upon the recommendation of every teacher, a student who does exceptionally well in every high-intermediate (Level 2) class might be allowed to become a part of the hybrid program, a course schedule that is offered only at the advanced level. Hybrid students take three ELP courses and one non-ELP, 3-credit course. This program is also extended to Level 3 students who are repeating individual ELP courses.

*These courses may not be substituted for English 10400 or English 10500 nor be counted toward degree requirements. Once students have successfully completed all their ELP courses, they will enroll in English 10000.*

## Bachelor of Arts, English

Requirements for all Bachelor's degrees:

### 1. Communication\*

ENGL 10800 Adv. Freshman Comp.

OR

ENGL 10000 AND/OR English Comp. I and II  
ENGL 10400 and 10500

COM 11400 Fundamentals Speech Comm

*\*State teacher licensing requires nine credits of oral and written expression. Take ENGL 40500 to complete the nine credit hours.*

Foreign Language: 10100, 10200, 20100, 20200

### 2. Science and Mathematics

*Twelve credits in science and mathematics with a minimum of three credits in each. No sequence required. Computer Science or Logic acceptable for mathematics.*

### 3. Humanities and Social Sciences

*Twenty-four credits. One course each from:*

- Literature (ENGL 20100 for lit. and teaching options)
- Philosophy (not Logic) (may not take PHIL 10600, 10700, 15100 to satisfy this requirement)
- History
- Aesthetics (A&D 25500, MUS 25000, ENGL 40500, ENGL 28600, COM 34300, THTR 20100)
- Economics 21000
- Psychology 12000
- Political Science
- Sociology 10000 or Anthropology

### 4. Freshman Experience Requirement

- Philosophy 10700

## Bachelor of Arts, English, Literature Option

(129 CREDITS)

Requirements for Bachelor's degree plus:

### English Requirements (42 credits)

Core (24 credits)

### Surveys.

*Choose four, with at least one covering pre-1700 Literature (ENGL 24000 or 26000), and at three covering English and American literature.*

ENGL 24000 Survey English Literature I (Early)

ENGL 24100 Survey English Literature II (Late)

ENGL 35000 Survey American Literature I (Early)

ENGL 35100 Survey American Literature II (Late)

ENGL 26000 Survey of World Lit. I (Early)

ENGL 26100 Survey of World Lit II (Late)

### Shakespeare and Literary Theory

ENGL 40300 Literary Theory

ENGL 44200 Shakespeare

### Junior/Senior Seminar

*Choose one:*

ENGL 41100 Studies in Major Authors

ENGL 41200 Studies in Genre

ENGL 41300 Studies in History and Lit.

ENGL 41400 Studies in Lit. and Culture

## Linguistics

*Choose one:*

ENGL 30800 Modern English Grammar

ENGL 32600 English Linguistics

ENGL 32700 English Language I: History and Development

## Area Studies (18 credits)

*No cross-listed course may be double-counted. Undergraduates are limited to two 50000 level courses.*

## Genre Courses

*Choose one:*

ENGL 35600 American Humor

ENGL 38100 British Novel

ENGL 38200 American Novel

ENGL 31400 Modern Poetry

ENGL 38300 Modern Drama

ENGL 31300 African-American Women's

ENGL 41200 Studies in Genre

ENGL 47900 Short Story

## Cultural Courses

*Choose two.*

ENGL 23600 Mothers and Daughters

ENGL 28600 The Movies

ENGL 31000 Intro Popular Culture

ENGL 31200 Ethnic American Women Writers

ENGL 32000 By and About Women

ENGL 34000 Lit. by Women of Color

ENGL 35500 African-American Lit.

ENGL 41400 Studies in Lit. and Culture

ENGL 45500 American Thought

ENGL 58000 Literature and Modern Thought

ENGL 58100 Ethical Problems in Modern Lit.

ENGL 58400 Lit and Psychological Problems

## Historical Courses

*Choose three:*

ENGL 32700 English Language I: History and Development

ENGL 33300 Renaissance English Drama

ENGL 33500 Restoration and 18th Century English Literature

ENGL 35500 African-American Lit.

ENGL 38100 British Novel

ENGL 38200 American Novel

ENGL 38300 Modern Drama

ENGL 38600 Film History to 1938

ENGL 38700 Film History since 1938

ENGL 41300 Studies in History and Lit.

ENGL 46200 Bible as Literature I

ENGL 46300 Bible as Literature II

ENGL 51000 History of English Language

ENGL 53100 Engl Novel Through 1800

ENGL 53200 Engl Novel in 19th Century

ENGL 53300 Tudor Literature

ENGL 53400 17th Century Literature

ENGL 53500 Early 18th Century Literature

ENGL 53600 Later 18th Century Lit.

ENGL 53700 English Drama to 1642

ENGL 54200 Shakespeare

OR 54300

ENGL 54700 Romantic Movement

ENGL 54800 Victorian Literature

ENGL 54900 Edwardian Literature

ENGL 55400 American Renaissance

ENGL 55600	19th Century American Fiction
ENGL 55800	Rise of Realism
ENGL 55900	Contemporary American Fiction
ENGL 57800	Modern American Fiction
ENGL 57900	Modern British Fiction
ENGL 59300	Contemporary British Fiction

### Electives or Minor (30 or 33 credits)

## Bachelor of Arts, English Teaching Option

(123-139 CREDITS)

Requirements for Bachelor's degree plus:

Students will fulfill their humanities literature requirement with ENGL 20100, which should be taken before other required literature courses. They may fulfill their aesthetics requirement with ENGL 40500.

### 1. English Requirements

ENGL 20100	Nature of Literary Study
ENGL 24000	English Literature I
ENGL 24100	English Literature II
ENGL 26000	World Literature
OR 26100	
ENGL 35000	American Literature I
ENGL 35100	American Literature II
ENGL 40500	Creative Writing
ENGL 44200	Shakespeare
ENGL 39100	Comp for English Grammar
ENGL 30800	Modern English Grammar
ENGL 32600	Linguistics
ENGL 49200	English Literature in Secondary School

### 2. English Elective

### 3. Education Requirements

EDPS 22000	Psychology of Learning
EDFA 20000	History and Philosophy of Education
EDPS 26000	Introduction to Special Education
EDCI 35500	Planning and Assessment
EDPS 26000	Special Education
EDCI 34100	English Teaching in Middle School, Junior High, & High School
EDPS 37000**	Teaching Students w/Diverse Needs in the K-12 Classroom
EDCI 32300	Educational Technology for Teaching and Learning
EDCI 36600	Use of Assessment in the K-12 Classroom
EDCI 49700**	Supervised Teaching

\*\*Admission to Teacher Education required.

**Transition Statement:** At the time of publication all Education curriculum has been finalized for secondary programs. However, significant content area curriculum reform in secondary education programs has reached final stages of development.

**Admission to Teacher Education:** Beginning with students admitted to the university Fall 2000, admission to Teacher Education will require nine hours of English beyond ENGL 10400 and ENGL 10500 ENGL 20100 and two literature surveys and a 3.0 GPA in English courses. Additional requirements are listed by the School of Education.

## Bachelor of Arts, English Writing Option

(123 CREDITS)

Requirements for Bachelor's degree plus:

### Core (all students must take 27 credits):

ENGL/COM 30200	Publications Design
ENGL 40400	Web Page Design
ENGL 40500	Creative Writing
ENGL 40600	Review Writing

ENGL 42000	Business Writing
ENGL 42800	Special Topics in Writing*
ENGL 43100	Web Usability: Reading and Writing on the Web
ENGL 43500	Topics in Writing for Digital Media*
ENGL 43600	Writing for Informational Interactive Media
ENGL 43700	Writing for Narrative Interactive Media
ENGL/COM 45100	Magazine Journalism

### Options — 9 credit hours

ENGL 30400	Advanced Composition
ENGL 42700	Senior Writing Project
ENGL 42800	Special Topics in Writing*
ENGL 43500	Topics in Writing for Digital Media
ENGL 48000	Writing Internship (EXL - Designated Experiential Learning course)
COM 25500	Intro to News Writing
COM 30500	Intro to News Editing

Note: Students interested in the Writing Internship in journalism or public relations should take COM 25500 and COM 30500. \*Variable topics course can be repeated if different topic.

### General Electives

Electives: 23 or 30 Credit Hours

## Minors in English

(15 CREDITS)

- Any 15 credits in English beyond English Composition I and II. Students may concentrate in one area, such as Reading, Writing, Literature, Linguistics, or across areas.

## Certificate in Writing for Interactive Media\*

(15 CREDITS)

ENGL 43100	Web Usability: Writing and Reading on the Web
ENGL 43600	Writing for Informational Interactive Media
ENGL 43700	Writing for Narrative Interactive Media
ENGL 43500	Topics in Writing for Digital Media

Repeated with a different topics for a total of 6 credit hours

\*All courses offered on-line

## Bachelor of Arts, Philosophy

(129 CREDITS)

### 1. Communication

ENGL 10800	Adv. Freshman Comp.
OR	
ENGL 10000/ 10400/10500	English Comp. I and II
COM 11400	Fundamentals Speech Comm.
Foreign Language	10100-10200-20100-20200

### 2. Science and Mathematics

Twelve credits in science and mathematics with a minimum of three credits in each. No sequence required. Computer Science or Logic acceptable for mathematics.

### 3. Humanities and Social Sciences

One course each from:

- Literature
- Philosophy (not Logic)
- History
- Aesthetics
- Economics 21000
- Political Science
- Psychology 12000
- Sociology 10000 or Anthropology

**4. Freshman Experience Requirement**

- Philosophy 10700

**A. Introductory Philosophy**

PHIL 10100 History of Philosophy

PHIL 11000 Introduction to Philosophy

*Acceptable IUN course*

**B. Ethics. Two of:**

PHIL 11100 Ethics

PHIL 32400 Ethics for the Professions

*Acceptable PHIL 29300, 49000 or IUN course*

**C. Logic. One of:**

PHIL 12000 Critical Thinking

PHIL 15000 Intro Logic

*Acceptable PHIL 29300, 49000 or IUN course*

**D. Topic Areas. Two from each group:**

*Metaphysics/Epistemology*

PHIL 20600 Phil of Religion

PHIL 21900 Existentialism

PHIL 22100 Philosophy of Science

*Acceptable PHIL 29300, 49000 or IUN course*

*History of Philosophy*

PHIL 301 Ancient Philosophy

PHIL 303 Modern Philosophy

*Acceptable PHIL 29300, 49000 or IUN course*

**E. Philosophy Electives**

*Any 2 additional Philosophy courses not used to fulfill the above requirements; may include PHIL 29300, 49000 or IUN courses.*

*Note: Philosophy students must take two PHIL 49000 classes on different topics.*

*No single PHIL 49000 may be used to satisfy more than one area requirement.*

**Minor in Philosophy**

(12 CREDITS)

*Any 12 credits in Philosophy beyond the general education requirement*

**Master of Arts, English**

(33 CREDITS)

**Special Admission Requirements**

1. Writing sample
2. Strong undergraduate major or minor in English or equivalent

**Requirements for Literature Specialization**

ENGL 50100 Introduction to Literary Methods

ENGL 60200 Literary Theory

Twenty-seven additional credits at the graduate level. A student may take a combination of up to six hours credit in either two non-English graduate courses or one non-English graduate course and one English course at the 40000 level.

The student must take MA Comprehensive Exams or write a MA thesis (see below).

**Requirements for the Composition Specialization**

ENGL 50100 Introduction to Literary Methods

ENGL 59100 Introduction to Composition Theory

ENGL 60200 Literary Theory

Twenty-four additional credits at the graduate level. At least nine of these credits must be in composition and six must be in literature. In addition, a student may take a combination of up to six hours credit in either two non-English graduate courses or one non-English graduate course and one English course at the 40000 level.

The student must take MA Comprehensive Exams or write a MA thesis (see next column).

**Exam and Thesis Options**

Every MA student must either write a thesis or pass comprehensive exams.

**1. Comprehensive Exams**

Exams are given to students in their final semester in the MA program based on their coursework. A plan of study must be submitted to the Graduate School Office one semester prior to writing MA exams.

**2. Thesis**

The student should choose a professor to serve as thesis chair and two other professors to serve on the thesis committee, and complete ENGL 59000 (a directed study preparing a bibliography and prospectus) and ENGL 69800 (writing the thesis). These courses count as credits towards the degree.

Please see the Department of English and Philosophy's website for additional information about admission and remaining in good standing with the department.

# Department of Foreign Languages and Literatures

**Maria Luisa Garcia-Verdugo, Head.** Faculty: G.R.Barrow; J.Castro-Urioste; E.Flannery; M.García-Verdugo; C.House; U.Jannausch (Emerita); B.E.Kienbaum (Emerita); S.Lombardo; J.Lu; E.Pasko; H.Ramirez-Barradas; J.Román-Lagunas; C.Ruiz (Emeritus); A.J.Russell (Emerita); C.Torres-Robles (Emerita); G.Velez-Rendon

Academic Advisor: J.Navarro

Office Manager: M.Lopez

The programs of the department of foreign languages and literatures develop students' competence in foreign languages and foster respect for cultural differences among peoples. Languages offered include French, German, Spanish, Japanese.\*

Introductory, two semester sequences are offered in Arabic, Chinese, Hebrew, Italian, Lithuanian, Modern Greek, Portuguese, Serbian-Croatian, Swahili and Urdu and Polish if there is enough demand.

The department views learning a foreign language and its culture as a way to foster international understanding in an increasingly interdependent world. Students gain an understanding of the contemporary society of the target culture through its literature and its civilization. The programs emphasize strong interpersonal, writing, and speaking skills, a breadth of knowledge, and a sensitivity to language and culture, all of which are assets for careers.

In the international studies option, the inclusion of a practical range of studies from other disciplines prepares the student for a real-life application of language skills in career settings.

\* Minimum grade of C required in Levels I, II, III

**International Media Center:** Language learning in the department is supported by the International Media Center, a multimedia lab providing state of art technology and the environment necessary to improve foreign language skills and to promote the languages and cultures of many countries.

**Study Abroad:** The department sponsors a summer study abroad programs in Spain, Mexico and France. These Programs enable students to study, travel, and increase their cultural horizons using the language, culture and civilization of these countries. The department feels strongly believes best way to achieve fluency in another language is to use it in an authentic setting. Study abroad programs provide an intimate encounter with the people and their multi-faceted culture.

**Courses in Study Abroad programs may fulfill Experiential Learning requirements.**

**Foreign Language Experiential Learning courses are: FR 20100, 20200, 26100, 46100, 49000, 51500 and SPAN 20100, 20200, 45100, 48100.**

The department encourages international/educational experiences such as: study abroad programs and internships. However, departmental approval is required in order to receive credit.

## Programs

- Bachelor of Arts in French or Spanish
- Bachelor of Arts in French International Studies
- Bachelor of Arts in Spanish International Studies - Heritage
- Bachelor of Arts in Spanish International Studies - Non-Heritage
- Bachelor of Arts in French or Spanish Teaching
- Bachelor of Arts in Spanish Teaching - Heritage
- Bachelor of Arts in Spanish Teaching - Non-Heritage
- Minors in French or Spanish
- Certificate in Spanish Translation

The Following General Education Courses (57 credits) are required for the

## Bachelor of Arts Degrees:

- Freshman Experience FLL 10300
- ENGL 10000 and/or 10400 and 10500 or 10800 Accelerated First Year Composition
- COM 11400 (only one COM)
- MA or STAT
- LAB Science (Teaching majors must take one Life and one Physical Science)
- CIS 20400 (Required for Teaching majors)
- MA/SCI/STAT/CIS/PHIL 15000/F&N 30300
- Literature
- Philosophy (not Logic)
- History
- Aesthetics (A&D 25500, ENGL 40500, MUS 25000, or THTR 20100)
- Economics 21000
- Political Science
- Psychology 12000 (Teaching majors should take EDPS 22000 instead of PSY 12000)
- Sociology 10000 or Anthropology
- Foreign Language (12 hour sequence)

## Bachelor of Arts in Foreign Languages: French and Spanish

(127 CREDITS)

*School and University Requirements for the Bachelor's degree plus:*

### 1. All of the following courses in the Major Language:

#### French

- 26100 Composition
- 36500 Conversation
- 46100 Intermediate Conversation

#### Non-Heritage Spanish Speakers

- 26100 Composition
- 36500 Conversation
- 46500 Intermediate Conversation

#### Heritage Spanish Speakers

- SPAN 31300
- SPAN 31400
- SPAN 46500

### 2. Major Language

*Eighteen credits in courses numbered 40000 or higher*

### 3. Second Foreign Language

### 4. Minor

### 5. Electives

## Bachelor of Arts, French International Studies

(127 CREDITS)

*School and University Requirements for the Bachelor's degree plus:*

### 1. All of the following courses in the Major Language:

- 26100 Composition
- 30700 Commercial
- 36500 Conversation
- 46100 Intermediate Composition
- 46500 Intermediate Conversation
- 51100 Advanced Conversation
- 51500 Advanced Composition

### 2. Culture/Civilization in the Major Language

*One course*

### 3. Major Language Electives approved by advisor

### 4. Career Emphasis

*Twelve credits of approved electives from such fields as Sociology, Psychology, Information Systems and Computer Programming, Communication, Economics, English, History, Management, Political Science, Hospitality and Tourism Management, and Organizational Leadership and Supervision.*

### 5. Minor or Electives

## Bachelor of Arts, Spanish International Studies Heritage

*School and University Requirements for the Bachelor's degree plus:*

### Spanish International Studies Requirements

#### A. Major in One Foreign Language

*A student may choose one approved course carrying the major foreign language or FLL prefix, but taught in English.*

- SPAN 30600 Spanish Grammar
- SPAN 31300 Spanish for Spanish Speakers I
- SPAN 51500 Advanced Composition
- SPAN 30700 Commercial

### Culture or Civilization

*(Choose one: Spain or Latin America)*

FLL 39000, FLL 49000 – SPAN 39000, SPAN 41300, SPAN 45100, SPAN 48100, SPAN 48200, SPAN 49000

### Elective

*(A student may choose one course from Literature, Culture or Civilization, but the course may NOT have the same focus as the required Culture or Civilization )*

### Elective

*(A student may choose any 4 elective courses from: SPAN or FLL prefix in Civilization, Culture, Literature, Special Topics, SPAN 31400, SPAN 51100 or FLL 46400)*

### Elective

### Elective

### Elective

### B. Multicultural/Multilingual Experience

*\*International Educational Experience may include a study abroad (HIGHLY RECOMMENDED); an experience supervised by the department such as reports, journals, research papers, assignment requirements and proof of completion; or a supervised senior project on an international topic or a contemporary issue (3-6 credits).*

FLL 49000 – SPAN 40800, SPAN 49000

#### Option One:

- 3 cr. hours \*International Educational Experience approved by the department
- 3 cr. hours \*International Educational Experience approved by the department

#### OR

#### Option Two:

- 3 cr. hours \*International Educational Experience approved by the department.
- 3 cr. hours Practicum approved by the department.

### C. Two Foreign Language courses

*These include departmental credits (issued after passing a course) and coursework in any one language taught at Purdue University Calumet or credits transferred in from another university.*

### D. International Focus

*Coursework with an international focus in the major or such areas as political science, management, history, economics, film, tourism, literature or another language.*

### E. Career Emphasis

*Advisor-approved from fields such as sociology, communication, English, supervision, computer information, management, political science, history, hospitality and tourism management, foreign languages other than the major or a combination of foreign languages/FLL courses (10100 without 10200 is not acceptable).*

### Electives

*Open Electives*

## Bachelor of Arts, Spanish International Studies Non-Heritage

*School and University Requirements for the Bachelor's degree plus:*

### Spanish International Studies Requirements

#### A. Major in One Foreign Language

*A student may choose one approved course carrying the major foreign language or FLL prefix, but taught in English.*

- SPAN 26100 Composition
- SPAN 30600 Spanish Grammar
- SPAN 30700 Commercial
- SPAN 36500 Conversation
- SPAN 46100 Intermediate Composition
- SPAN 46500 Intermediate Conversation
- SPAN 51100 Advanced Conversation

### Culture or Civilization

*(Choose one: Spain or Latin America)*

FLL 39000, FLL 49000 – SPAN 39000, SPAN 41300, SPAN 45100, SPAN 48100, SPAN 48200, SPAN 49000

### Elective

*A student may choose one course from Literature, Culture or Civilization, but the course may NOT have the same focus as the required Culture or Civilization*

**Elective**

A student may choose any 4 elective courses from: SPAN or FLL prefix in Civilization, Culture, Literature, Special Topics, SPAN 31400, SPAN 51100 or FLL 46400

**B. Multicultural/Multilingual Experience**

\*International Educational Experience may include a study abroad (HIGHLY RECOMMENDED); an experience supervised by the department such as reports, journals, research papers, assignment requirements and proof of completion; or a supervised senior project on an international topic or a contemporary issue (3-6 credits).

FLL 49000 – SPAN 40800, SPAN 49000

Option One:

3 cr. hours \*International Educational Experience approved by the department

3 cr. hours \*International Educational Experience approved by the department

**OR**

Option Two:

3 cr. hours \*International Educational Experience approved by the department.

3 cr. hours Practicum approved by the department.

**C. Two Foreign Language courses**

These include departmental credits (issued after passing a course) and coursework in any one language taught at Purdue University Calumet or credits transferred in from another university.

**D. International Focus**

Coursework with an international focus in the major or such areas as political science, management, history, economics, film, tourism, literature or another language.

**E. Career Emphasis**

Advisor-approved from fields such as sociology, communication, English, supervision, computer information, management, political science, history, hospitality and tourism management, foreign languages other than the major or a combination of foreign languages/FLL courses (10100 without 10200 is not acceptable).

**Electives**

Open Electives

**Bachelor of Arts, French Teaching**

(124-130 CREDITS)

School and University Requirements for the Bachelor's degree plus:

**1. French Courses**

FR 26100 Composition

FR 36500 Conversation

FR 46100 Intermediate Composition

FR 46500 Intermediate Conversation

FR 51100 Advanced Conversation

two literature

one civilization

one culture

two electives

(Highly recommended as an Elective is FLL 46400, Comparative Study of Modern Languages.)

(A student may choose one approved course, in addition to FLL 46400, carrying the major foreign language or FLL prefix, but taught in English.)

**2. Education Requirements**

EDPS 22000 Psychology of Learning

EDFA 20000 History and Philosophy of Education

EDPS 26000 Introduction to Special Education

EDCI 35500 Planning and Assessment

EDPS 26000 Special Education

EDCI 34200 Foreign Language instruction in Middle School, Junior High, & High School

EDPS 37000\*\* Teaching Students w/Diverse Needs in the K-12 Classroom

EDCI 32300 Educational Technology for Teaching and Learning

EDCI 36600 Use of Assessment in the K-12 Classroom

EDCI 49700\*\* Supervised Teaching

\*\*Admission to Teacher Education required.

**Bachelor of Arts, Spanish Teaching Heritage and Non-Heritage**

SELECT THE HERITAGE OR NON-HERITAGE OPTION

(127-130 CREDITS)

**1. Spanish Teaching Heritage**

SPAN 31300 Spanish for Spanish Speakers I

SPAN 31400 Spanish for Spanish Speakers II

SPAN 30600 Spanish Grammar

SPAN 30400 Readings from the Hispanic World

SPAN 45100 Spanish Civilization

**OR**

SPAN 48100 Spanish Culture

SPAN 48200 Latin American Civilization

SPAN 51100 Advanced Conversation

SPAN 51500 Advanced Composition

SPAN 40500 Intro to Spanish Literature I

**OR**

SPAN 40600 Intro to Spanish Literature II

SPAN 43500 Spanish American Literature to Modernism

**OR**

SPAN 43600 Spanish American Literature from Modernism to Present

SPAN 42700 Spanish Linguistics

SPAN Electives – 6 credits

Any 10100 foreign language course other than SPAN or ENGL

**2. Spanish Teaching Non-Heritage**

SPAN 36500 Conversation

SPAN 26100 Composition

SPAN 30600 Spanish Grammar

SPAN 30400 Readings from the Hispanic World

SPAN 46500 Intermediate Conversation

SPAN 46100 Intermediate Composition

SPAN 45100 Spanish Civilization

**OR**

SPAN 48100 Spanish Culture

SPAN 48200 Latin American Civilization

SPAN 51100 Advanced Conversation

SPAN 51500 Advanced Composition

SPAN 40500 Intro to Spanish Literature I

**OR**

SPAN 40600 Intro to Spanish Literature II

SPAN 43500 Spanish American Literature to Modernism

**OR**

SPAN 43600 Spanish American Literature from Modernism to Present

SPAN 42600 Spanish Linguistics

Any 10100 foreign language course other than SPAN or ENGL

**3. Education Requirements**

EDPS 22000 Psychology of Learning

EDFA 20000 History and Philosophy of Education

EDPS 26000 Introduction to Special Education

EDCI 35500 Planning and Assessment

EDPS 26000 Special Education

EDCI 34200 Foreign Language instruction in Middle School, Junior High, & High School

EDPS 37000\*\* Teaching Students w/Diverse Needs in the K-12 Classroom

EDCI 32300 Educational Technology for Teaching and Learning

EDCI 36600 Use of Assessment in the K-12 Classroom

EDCI 49700\*\* Supervised Teaching

\*\*Admission to Teacher Education required.

## Foreign Language Minor

(15 CREDITS)

*Fifteen credits of coursework (not to include departmental credit) beyond 20200, including a course in composition and a course in conversation. (Courses must be in the same language.)*

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### Certificate – Spanish Translation

(18 CREDIT HOURS REQUIRED FOR CERTIFICATE COMPLETION)

Required courses:

- SPAN 37300 Spanish Translation
- SPAN 47300 Intermediate Spanish Translation
- SPAN 51500 Advanced Spanish Composition
- ENGL 26000 Introduction to World Literature: to 1700
- ENGL 26100 Introduction to World Literature: since 1700
- ENGL 42000 Business Writing

Highly recommended additional courses (3 class hrs. ea.):

- SPAN 30600 Spanish Grammar
- SPAN 30700 Commercial Spanish
- SPAN 40500 Introduction to Spanish Literature I
- SPAN 40600 Introduction to Spanish Literature II
- SPAN 43500 Spanish American Literature to Modernism
- SPAN 43600 Spanish American Literature from Modernism to Present
- ENGL 24000 Survey of the Literature of England: from the beginnings
- ENGL 24100 Survey of the Literature of England: from the Rise of Romanticism to the Modern Period
- ENGL 35000 Survey of American Literature from its beginnings to 1865
- ENGL 35100 Survey of American Literature from 1865 to the Post World War II Period
- ENGL 38100 The British Novel
- ENGL 42300 Technical Publications Writing

# Department of History and Political Science

**Richard Rupp, Head.** *Faculty:* J. Bigott; F. Colucci; E. G. De Felice; M. Eisenstein; M. W. H. Grote (Emeritus); G. Hong; F. Jackson; M. J. Joyce; E. P. Keleher (Emeritus); S. Lerner; V. Martinez; D. Pierce (Emerita); W. St. Jean; A. Clark; T. Stabler; L. Rademacher; M. Rincker; N. L. Trusty (Emeritus); R. A. Van Orman (Emeritus);

*Academic Advisor:* S. VanTil

*Office Manager:* S. Schultz

The Department of History and Political Science provides programs that offer students an understanding of the development of civilizations and the nature of political behavior within and among nations. The History program is designed to give students comprehension of past institutions, traditions, events, and individuals. This program helps students to develop broad perspectives, assess and analyze the events of their time, and cultivate intellectual growth, research and writing skills and capabilities, critical thinking, and preparation for careers in teaching, graduate and law school, and business.

The program in Political Science provides a social scientific and analytical understanding of the rights and obligations of the citizen, knowledge of the role and operation of government, awareness of international relations and comparative government, an appreciation of public policy issues, and preparation for entry into such professions as law, teaching, law enforcement, and business. Within the Political Science Major, the department also offers a Criminal Justice Option for those interested in careers in law enforcement.

Thus, both History and Political Science programs help students develop skills in research, writing, and critical analysis and provide essential grounding for participation in a variety of career options and human activities.

The Social Studies Teaching Major is housed within the department of History and Political Science. This program, cooperatively developed and supported by the Department and by the School of Education, is specifically designed to provide preparation for teachers of social studies.

Majors in History, Political Science, or Social Studies teaching are excellent preparation for a variety of activities requiring a solid liberal arts background. Internship and Experiential Learning within the majors provide work experience that makes the education more meaningful for students and, on graduation, make students more attractive to employers.

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## Programs

- Bachelor of Arts, History
- Bachelor of Arts, Political Science
- Bachelor of Arts, Political Science, Option in Criminal Justice
- Bachelor of Arts, Social Studies Teaching
- Master of Arts, History
- Minors in Political Science and History

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*The Following General Education Courses (54-57 credits) are required for the*

## Bachelor of Arts Degrees:

- ENGL 10000/10400-10500 or 10800
- COM 11400
- CIS 20400
- MA or STAT
- LAB Science
- PHIL 15000 or F&N 30300 or any MA/SCI/STAT/CIS
- Literature
- Philosophy (not Logic)
- History
- Aesthetics (A&D 25500, ENGL 40500, MUS 25000, or THTR 20100)
- Economics 21000
- Political Science 10100
- Psychology 12000
- Sociology 10000 or Anthropology
- Foreign Language 12-hour sequence: French, German, Spanish or Japanese

## Bachelor of Arts, History

(127 CREDITS)

### General Education Requirements

HIST 10600 Freshman Experience

### Nine hours of 100 level history courses

#### Research and methods in History:

HIST 29500 History and Writing

HIST 36900 Research in History

### Two American (U.S.) History Courses

### Two Non-American (Non-U.S.) History Courses

### Twelve additional hours of History at 30000 level or higher

### Electives or Minor (28 or 31 credits)

## History Minor

(15 CREDITS)

HIST 15100 or HIST 15200; HIST 11000 or HIST 10400; and nine credits of History courses above the 29900-level

## Bachelor of Arts, Political Science

(127 CREDITS)

POL 20000 Intro. to the Study of Political Science. (Freshman Experience)

POL 30000 Introduction to Political Analysis

### Three courses chosen from 2 of the 3 Areas of Political Science

(one of these courses must be numbered 30000 or higher) (6 credit hours)

### Six other 3-credit courses in political science, at least two of which shall be numbered 40000 or higher. Students must select one course from two areas other than those in requirement

POL 40100 Practicum in Local Government,

OR

POL 40600 Internship in Public Agency, OR Study Abroad (3 credit hours)

POL 49100 Senior Seminar

### The three AREAS of Political Science

(For area assignment of courses not listed below contact departmental advisor)

AREA 1: American Political Systems, Processes, and Behavior:

AREA 2: Political Theory and Methodology:

AREA 3: International Relations and Comparative Political Systems, Processes, and Behavior:

### Electives and/or Minor Requirements (34 or 37 credits)

## Bachelor of Arts, Political Science, Criminal Justice Option

(127 CREDITS)

### Freshman Experience (POL 20000)

### Political Science — Criminal Justice (42 credits)

The following basic courses:

POL 13000 Introduction to International Relations

OR

POL 14100 Government of the World

POL 30000 Introduction to Political Analysis

All of the following advanced-level courses:

POL/SOC 34300 Introduction to the Criminal Justice System

POL 34600 Law and Society

SOC 42100 Juvenile Delinquency

POL 30700 Victimology

HIST 32500 History of Crime

Four courses from the following:

POL 33000 Politics of Lake County

POL 35400 Civil Liberties and the Constitution

POL 35800 Administrative Law and Ethics

POL 35900 Administrative Behavior in Public Agencies

POL 36000 Women and the Law

POL 36400 Law, Ethics, and Public Policy

POL 37100 Comparative Urban Politics

POL 37200 Indiana Government and Politics

POL 34100 Criminal Investigation

POL 46000 Judicial Politics

POL 46100 Constitutional Law

SOC 22000 Social Problems

SOC 31400 Race and Ethnic Relations

SOC 41100 Social Stratification

SOC 42200 Criminology

POL/SOC 44300 Field Experience in Criminal Justice

Note: POL courses taken to fulfill general education requirements may not be counted for credit in the section on the major. At least eighteen credits must be taken from POL classes must be above the 29900 level.

### Electives and/or Minor Requirements (34 or 37 credits)

## Political Science Minor

(15 CREDITS)

POL 20000 and any 12 credits in political science classes at the 20000 level or above

## Bachelor of Arts, Social Studies Teaching

### 1. General Education and School Requirements

HIST 10600 Freshman Experience

ENGL 10800 Adv. Freshman Comp.

OR

ENGL 10000/10400 & 10500 English Comp. I and II

COM 11400 Fund. Speech Com.

Foreign Language 10100-10200-20100-20200

(French, German, Spanish or Japanese)

(Students must pass the previous level with a C- or better to continue to the next language course.)

### Science and Mathematics

3 credits of Mathematics or Statistics

3 credits of Life Science (NRES/SCI 10300, 10400, 10500, 11400)

3 credits of Physical Science (CHM/EAS/ASTR/SCI 11200 or 11300S)

Computer Utilization (CIS 20400)

### 3. Humanities and Social Sciences

One course each from:

Literature

Philosophy

History

Aesthetics (A&D 25500, MUS 25000, THTR 20100, ENGL 40500, or PHIL 10600)

Economics (including ECON 21000, ECON 37500/HIST 37400, or ECON 25100)

Political Science

Psychology (EDPS 22000 fulfills this requirement)

Sociology or Anthropology

### Social Studies Requirements:

Three 15-24 credit hour intense areas must be taken from among Economics, Government, Historical Perspectives, Psychology, and Sociology. (3.0 GPA required in each prior to student teaching.)

Description of Intense Areas for Social Studies Teaching:

**Economics:** (Minimum Math prerequisite for this area is MA 15300)

ECON 25100 Microeconomics

ECON 25200 Macroeconomics

Plus three courses from the options list below:

OPTIONS LIST IN ECONOMICS:

ECON 31100 Environmental Economics

ECON 32200 Public Finance

ECON 35100	Intermediate Microeconomics
ECON 35200	Intermediate Macroeconomics
ECON 37500/ HIST 37400	U.S. Economic History
ECON 38000	Money and Banking
ECON 41900	Managerial Economics
ECON 43400	International Trade
ECON 46500	Economic Forecasting Techniques
MA 225 00	Calc For Bus & Econ I
	<b>AND / OR</b>
MGMT 22500	Fund Managerial Stat

All four of the following courses:

**Historical Perspectives:**

HIST 11000	The Pre-modern World
HIST 10400	The Modern World
HIST 15100	American History to 1877
HIST 15200	US Since 1877
HIST 29500	Research and Writing in History

Plus three 30000-, 40000-, or 50000- level History courses from both non-United States History and United States History.

**Government:**

POL 10100	American Government
	<b>AND</b>
POL 13000	Intro. Intl. Relations
	<b>OR</b>
POL 14100	Governments of the World
POL 20000	Introduction Study Pol. Sci.

Plus two additional 30000-, 40000-, or 50000-level courses in Political Science.

**Psychology:**

PSY 12000	Elem. Psychology
PSY 36100 <b>OR</b> 36200	Human Develop. I or II
PSY 33900	Adv. Social Psychology
	<b>OR</b>
SOC 34000	General Social Psychology

One additional course from among:

PSY 34400	Human Sexuality
PSY 35000	Abnormal Psychology
PSY 42800	Drugs and Behavior

Plus three additional credits in Psychology at the 300 level or above.

**Sociology:**

SOC 10000	Intro. Sociology
SOC 22000	Social Problems

Plus three courses in Sociology at the 300 level or above, excluding SOC 36100, 462, 562, AND 312

**Education Requirements:** (See page 00 for more information)

EDFA 20000	History and Philosophy of Education
EDPS 22000	Psychology of Learning (3 credits)
EDPS 26000	Introduction to Special Education
EDCI 35500**	Teaching and Learning in the K-12 Classroom
EDCI 36600**	Use of Assessment in the K-12 Classroom
EDPS 37000**	Teaching Students w/Diverse Needs in the K-12 Classroom
EDCI 34700**	Strategies of Instruction in the Senior High School
EDCI 32300**	Educational Technology for Teaching and Learning
EDCI 49700**	Supervised Teaching

\*\*Admission to Teacher Education Program required prior to registration in courses indicated.

GPA Requirements in Social Studies Teaching:

—3.00 GPA required for admission to professional semester (student teaching), if admitted to the University beginning Spring, 2004.

—No grades of "D" in Education or major area courses.

—No more than two repeats permitted, once the student has been coded to teaching major.

—No more than two grades of "C" in Education courses.

## Master of Arts, History

(33 CREDITS)

*Special Admission Requirements*

Scores from the Graduate Record Exam or GRE (at the discretion of the department) may be required. The GRE is mandated for students with an undergraduate GPA below 3.0/4.0.

An undergraduate History major or a strong minor.

Completion of the application process (submission of official transcripts of all undergraduate work, three recommendations, a 300 to 500-word essay on why the student wishes to attend graduate school and a completed on-line application form). The student may take as many as 12 credits in a temporary or post-baccalaureate status prior to being admitted to the program.

**Degree Requirements**

**Non-Thesis option (33 cr.)** divided into primary area (27 cr.) and related area (6 cr.). Related areas need not be in History. All classes must be 50000- or 60000-level.

At least 12 credits of History at 60000 level.

Written and/or oral comprehensive examinations after completion of coursework.

**Thesis option (30 to 33 cr.)** divided into primary area (24 to 27 cr.) and related area (6 cr.). Related areas need not be in History. All classes must be 50000-or 60000-level.

At least 12 credits of History at 60000 level, including at least three credits of thesis enrollments.

Completion of a thesis, in accordance with criteria of the Graduate School.

Defense of thesis.

**Transfer of Credit**

No more than two courses from another accredited institution.

# Department of Hospitality and Tourism Management

**Michael J. Flannery, Head.** Faculty: N.A. Faiola; G.A. Farley; R.A. Fields; J.L. Hack; J.M. Pluckebaum (Emerita); W.N. Stocks; D.L. Vorwald; M.B. West (Emerita)

Academic Advisors: C. Browder

Office Manager: J. Rhyne

The department of Hospitality and Tourism Management is designed to offer students a broad-based curriculum, combining a strong liberal arts education with a management focus. It is an interdisciplinary degree that ensures a solid business foundation and a genuine grasp of all aspects of the hospitality industry including food & beverage management, gaming, recreation, private club administration, travel and tourism activities, event and conference planning, convention and visitors bureaus, and more. This foundation of knowledge is coupled with practical learning about how to organize, supervise and manage employees, which will serve you very well in an industry that requires experiential and practical learning integrated with classroom theories.

The hospitality industry is the fastest growing business sector in the world, and globalization has brought about an explosion in career opportunities. The Hospitality and Tourism Management department offers bachelor degree programs; certificate programs are also available. The department offers courses in a variety of academic and experiential learning contexts. Industry practicum experience is required in both the general hospitality and tourism management and fitness management programs. This means prospects abound for internships and experiential learning opportunities.

The centerpiece of experiential learning for Hospitality and Tourism Management is the White Lodging Hospitality and Tourism Management (HTM) Center which features state-of-the-art kitchen spaces, wine & beverage laboratory and a management simulation computer lab. In the HTM laboratories, students are introduced to state-of-the-art computer software used in the hospitality industry and operational foods/restaurant facilities. These laboratories also allow students to engage in simulated experiments and analysis of data from classroom experimental projects.

## Programs

- Bachelor of Science, Hospitality and Tourism Management
- Bachelor of Science, Hospitality and Tourism Management, option in Fitness Management
- Certificate in Hospitality
- Certificate in Nutrition and Health Management
- Certificate in School Nutrition and Food Services
- Minors in Hospitality Management, Foods and Nutrition, Recreational Sports Management

## Certificates

Certificates are designed for non-traditional students employed full-time in responsible positions in the hospitality or fitness industry.

### Certificate in Hospitality

(18-19 CREDITS)

#### Required Courses

HTM 14100	Financial Accounting for the Service Industries
HTM 21200	Organization & Management in the Hospitality and Tourism Industry
HTM 23100	Hospitality and Tourism Marketing
HTM 30100	Hospitality and Tourism Industry Practicum
HTM 31200	Human Resources Management Service Industry

#### Elective Courses

Completion of two courses in ONE of these six areas:

##### Restaurant Management:

F&N 20300, HTM 31400, HTM 32200, OR HTM 49100

##### Hotel Management:

HTM 18100, HTM 32200, HTM 33100, OR HTM 49100

##### Institutional Management:

F&N 20300, HTM 19100, HTM 32200, OR HTM 36100

##### Tourism Management:

HTM 33100, HTM 37100, HTM 37200, OR SPAN 10600

##### Casino Management:

HTM 18100, HTM 31600, HTM 34100, OR HTM 49100

##### Private Club Management:

HTM 31500, HTM 32200, HTM 33100 OR HTM 49100

### Certificate in Nutrition and Health Management

(18 CREDITS)

#### Required courses

F&N 10500	Current Issues in Nutrition and Food Safety
F&N 26100	Nutrition for Health, Fitness and Sports
FM 10000s	Individualized Wellness Strategies — (2 areas of 1 cr. each)
FM 21900	Issues and Problems in Health
FM 30100	Recreation Leadership
HTM 31500	Private Club Management and Operation

#### Elective (3 credits)

Any HTM, F&N or FM course

### Certificate in School Nutrition and Food Services

(25 CREDITS)

#### Required courses

HTM 21200	Organization and Management in the Hospitality Industry
HTM 23100	Hospitality and Tourism Marketing
HTM 24100	Managerial Accounting & Financial Management in Hospitality Operations
HTM 25100	Computers in the Hospitality Industry
HTM 30100	Hospitality and Tourism Industry Practicum
HTM 31100	Procurement Management for Food Service
HTM 31200	Human Resources Management for the Service Industries
HTM 32200	Hospitality Facilities Management
HTM 36100	Managed Services for the Food Service Industry

# Bachelor of Science, Hospitality and Tourism Management

(129 CREDITS)

## 1. Communication (12 credits)

ENGL 10000/10400	English Composition I
ENGL 10500	English Composition II
COM 11400	Fund. Speech Comm.
ENGL 42000	Business Writing

## 2. Science and Mathematics (12 credits)

STAT 13000	Statistics and Contemp. Life
CIS 20400	Introduction to Computer-based Systems
MA/SCI	Elective course in Math, Science, Computer Science or Logic
SCIENCE	Elective course in Science with laboratory

## 3. Humanities, Social and Behavioral Sciences (18 credits)

ECON 21000	Economics (or higher)
PSY 12000	Elementary Psychology
SOC 10000	Introduction to Sociology
SPAN 10600	Spanish for Business
Humanities Elective	Any courses in A&D, ENGL Lit., FLL, HIST, MUS, PHIL, <b>OR</b> THTR
Soc. Science Elective	ANTH, ECON, POL, PSY, <b>OR</b> SOC course

## 4. Hospitality and Tourism Management

*Requirements (77 credits) A grade of 'C' or better is required in all F&N, FM and HTM courses*

F&N 20300	Foods: Their Selection and Preparation
F&N 30300	Essentials of Nutrition
HTM 10000	Intro. Hospitality and Tourism Industry
HTM 10100	Hospitality and Tourism Student Seminar
HTM 14100	Financial Accounting for the Service Industries
	<b>OR</b>
MGMT 20000	Introductory Accounting
HTM 18100	Lodging Management
HTM 19100	Sanitation and Health in Foodservice, Lodging and Tourism
HTM 21200	Organization & Management in Hospitality and Tourism Industry
HTM 23100	Hospitality and Tourism Marketing
HTM 24100	Managerial Accounting and Financial Management
HTM 29100	Quantity Food Production and Service
HTM 30100	Hospitality and Tourism Industry Practicum
HTM 31100	Procurement Management for Foodservice
HTM 31200	Human Resources Management for the Service Industries
HTM 32200	Hospitality Facilities Management
HTM 34100	Cost Controls in Foodservice and Lodging
HTM 37100	Introduction to Tourism
HTM 41100	Hospitality and Tourism Law
HTM 49101	Sales & Service for Beverage Operations (Must be 21 years old)
HTM 49200	Advanced Foodservice Management
HTM 49900	Feasibility Studies and Business Development
HTM/F&N	Electives courses (12 credits)

## 5. HTM or F&N Electives (12 credit hours)

## 6. Electives or Minors (14 credit hours)

# Bachelor of Science, Hospitality and Tourism Management, Fitness Management Option

(129 CREDITS)

## 1. Communication (12 credits)

ENGL 10000/10400	English Composition I
ENGL 10500	English Composition II
COM 11400	Fund. Speech Comm.
ENGL 42000	Business Writing

## 2. Science and Mathematics (17 credits)

STAT 13000	Statistics and Contemp. Life
CIS 20400	Introduction Computer-based Systems
BIOL 21300	Anatomy and Physiology I
BIOL 21400	Anatomy and Physiology II
CHM 11900	General Chemistry

## 3. Humanities, Social and Behavioral

Sciences (15 credits)

ECON 21000	Economics (or higher)
PSY 12000	Elementary Psychology
SOC 10000	Introduction to Sociology

Humanities Elec.

Elective A&D, ENGL Lit., FLL, HIST, course in MUS, PHIL, **OR** THTR

SOC 43000 Sociology of Aging

**OR**

CDFS 21000 Intro. Human Development

## 4. Fitness Management Requirements (66 credits)

**A grade of "C" or better is required in all F&N, FM and HTM Courses.**

F&N 10500	Current Issues in Nutrition and Food Safety
F&N 20300	Foods: Their Selection and Preparation
F&N 26100	Nutrition for Health, Fitness, and Sports
F&N 30300	Essentials of Nutrition
F&N 32200	Community Nutrition & Health Promotion Entrepreneurship
F&N 36000	Nutrition for Aging
HTM 10000	Intro. Hospitality and Tourism Industry
HTM 10100	Hospitality and Tourism Student Seminar
HTM 14100	Financial Accounting for the Service Industries
	<b>OR</b>
MGMT 20000	Introductory Accounting
HTM 21200	Organization & Management in Hospitality and Tourism
HTM 23100	Hospitality and Tourism Marketing
HTM 24100	Managerial Accounting and Financial Management
HTM 31200	Human Resources Management for the Service Industries
HTM 31500	Private Club Management and Operation
FM 10000s	Individualized Wellness Strategies — five areas
FM 21900	Issues and Problems in Health
FM 26800	Physiology of Exercise
FM 30000	Practicum: Health, Fitness and Nutrition
FM 30100	Recreation Leadership
FM 30200	Anatomy and Kinesiology
FM 30500	Practicum in Fitness Management
FM 31400	Beginning Concepts of Group Exercise and Personal Training
FM 41000	Evaluation, Testing and Assessment of Exercise
FM 47400	Physiology of Exercise II

## 5. Electives (18 credits)

# Minors in Foods and Nutrition, Hospitality Management, or Recreational Sports Management

(15-20 CREDITS EACH)

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## Minor in Foods and Nutrition

(15 TO 16 CREDITS)

### Required

F&N 10500	Current Issues in Nutrition and Food Safety
F&N 26000	Nutrition for Early Childhood Educators
F&N 26100	Nutrition for Health, Fitness and Sports
F&N 30300	Essential of Nutrition
F&N 36000	Nutrition for the Aging
Elective	F&N-Electives (total 2-3 credits)

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## Minor in Hospitality Management

(20 CREDITS)

### Required

F&N 20300	Foods: Their Selection and Preparation
HTM 10000	Introduction to the Hospitality and Tourism Industry
HTM 14100	Financial Accounting for the Service Industries
HTM 18100	Lodging Management
HTM 21200	Organization and Management in Hospitality and Tourism Industry
HTM 23100	Hospitality and Tourism Marketing
HTM 31200	Human Resources Management for the Service Industries

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## Minor in Recreational Sports Management

(15 CREDITS)

### Required

F&N 10500	Current Issues in Nutrition and Food Safety
F&N 26100	Nutrition for Health, Fitness and Sports
FM 10000	Individualized Wellness Strategies (2 areas)
FM 21900	Issues and Problems in Health
FM 30100	Recreation Leadership
HTM 31500	Private Club Management and Operations

# Women's Studies

**Rebecca Stankowski, Director.** *Instructional Faculty in the Women's Studies Program:* Jane Campbell; Theresa Carilli; Ralph Cherry; Anne Edwards; Karen Lee Fontaine; Lisa Goodnight; Zenobia Mistri; Colette Morrow; John Rowan; Kathleen Tobin

Web site (general information): [www.purduecal.edu/wost/](http://www.purduecal.edu/wost/)  
E-mail (Rebecca Stankowski): [rhs@purduecal.edu](mailto:rhs@purduecal.edu)  
Phone:(219) 989-2208

The Women's Studies Program offers courses that can be taken individually or combined into the Women's Studies minor or the Associate of Arts degree with a concentration in Women's Studies. These programs provide a special focus on gender issues as they relate to the student's major field of study.

## Mission Statement:

The Women's Studies Program will offer an academic curriculum informed by feminist theories and methodologies and will sponsor activities focusing on women's issues.

The Women's Studies curriculum provides all students with a threefold opportunity: (1) to examine the role of gender in social institutions, in the formation of identity, and in the development of knowledge; (2) to explore physical and mental health and wellness issues of particular importance to women; and (3) to increase awareness of women's endeavors and contributions throughout time.

The Women's Studies Program provides courses from a variety of disciplines leading to a minor in Women's Studies and with a concentration in Women's Studies.

The Women's Studies Program sponsors activities that address the personal, professional, cultural and educational needs of a diverse population of women, both on the campus and in the community.

## Programs

- Minor in Women's Studies

## Minor in Women's Studies

(15 CREDITS)

### 1. Women's Studies Core

WOST 12100 Introduction to Women's Studies

### 2. Women's Studies Electives

*Four from:*

WOST 10300 Freshman Experience  
WOST/F&N 20800 Nutrition in Women's Health  
WOST/COM 40500 Rhetoric Women's Rights  
WOST/COM 47000 Women in the Media  
WOST/ENGL 32000 By and About Women  
WOST/HIST 36500 Women in America  
WOST/PSY 34900 Psychology of Women  
WOST/SOC 35000 Social Psych. of Marriage  
WOST/ENGL 23600 Mothers and Daughters Lit.  
WOST/ENGL 32400 International Women's Lit.  
WOST/ENGL 34000 Literature by Women of Color  
WOST/SOC 45000 Sex Roles Modern Society  
WOST 49000 Topics in Women's Studies

*School of*  
MANAGEMENT

# School of MANAGEMENT

Martine Duchatelet, Dean  
[www.purduecal.edu/management](http://www.purduecal.edu/management)

- Department of Accounting: E. Furticella, Acting Administrative Department Head
- Department of Finance and Economics: P. McGrath, Department Head
- Department of Information Systems: K. Chen, Department Head
- Department of Marketing, Human Resources, and Management: L. Feldman, Department Head

Anderson Building, Third Floor  
219/989-2595  
1-800-HI-PURDUE, ext. 2595

## Bachelor's Degree Programs

- Accounting
- Business
  - with a major in:*
  - ~ Entrepreneurship
  - ~ Equine Business Management
  - ~ Human Resources
  - ~ Retailing
- Management
  - with a major in:*
  - ~ Accounting
  - ~ Business Economics
  - ~ Finance
  - ~ Human Resource Management
  - ~ Marketing
  - ~ Management Information Systems

## Master's Degree Programs

- Business Administration
- Business Administration for Executives
- Accountancy

The School of Management is accredited by the International Assembly for Collegiate Business Education (IACBE) and the North Central Association (NCA).

## Career Opportunities

Graduates of Purdue Calumet's School of Management may work as a financial analyst, retail manager, financial accountant, project manager, small business owner, production manager, consultant, purchasing manager, human resources director, bank officer, labor relations representative, public relations officer, operations manager, managerial accountant, marketing researcher, inventory control director, recruiter, marketing director, benefits administrator, information technology liaison, labor organizer, training and development director, securities analyst, health and safety manager, sales manager, business analyst, information technology manager, independent auditor, transportation director and more.

# School of Management

## **M. Duchatelet, Dean.**

### **Department of Accounting: E. Furticella, Acting Administrative Department Head.**

*Faculty:* C. Anderson (Emeritus); A. Crossin; P. Empey (Emeritus); E. Engle (Emeritus); G. Hoover King; A. Lindskog (Emeritus); S. Mo; K. Pogach; R. Pollock; D. Rinke; E. Waples.

### **Department of Finance and Economics: P. McGrath, Department Head.**

*Faculty:* R. Abuizam; A. Biswas; J. Furdek; P. Miranda; A. Mitra; P. Obi; S. Sil; D. Tsoukalas

### **Department of Information Systems: K. Chen, Department Head.**

*Faculty:* K. Chu; R. Foreman; L. Green; M. Mick; C. Ye; L. Zhao

### **Department of Marketing, Human Resources, and Management: L. Feldman, Department Head.**

*Faculty:* A. Angriawan; C. Barczyk; S. Conners; C. Costiuc; G. Falk; K. Firlej; J. Husain; J. Kerr; J. Kim; J. Lucas; D. Nikolovski; C. Rarick; D. Ruth; S. Sekhar; R. Smith; G. Silver (Emeritus)

### **School of Management Staff**

S. Martin; D. Robinson; K. Uhl; J. Tu

### **School of Management Advisors**

E. Brickman; D. Thinner

## **Mission Statement**

The School of Management provides its diverse student body with business programs that develop a strong foundation for successful employment and opportunities for advancement in a rapidly evolving global environment. As an educational leader and community partner, the School of Management is committed to meeting the life-long learning needs for business education for those in the Calumet region and beyond.

In pursuing our mission, we expect excellence from all members of our academic community as we:

Maintain quality academic programs that promote student success in their chosen career and responsible contributors to their communities;

Support and expect faculty engagement in applied business and economic scholarship and professional activities that complement the School's academic commitment to its students, the region, and beyond;

Promote regional economic development, relationships with the business community, and service to the region and beyond

## **Values Statement**

*We are committed to:*

- Integrity and professionalism in all of our teaching, research, and service activities;
- Active citizenship within the School, the University, the region and beyond;
- An assessment process for continuous improvement and accountability in teaching, research and service;
- A diverse student, faculty, and staff community and to a diverse learning environment;
- Using emerging technologies to effectively support the instructional process;
- Engaged scholarly activity as an intellectual tool for students and faculty to work together and stay current in their fields;
- Experiential learning opportunities that provide a foundation for students to take leadership roles in both public and private organizations;
- A curriculum that emphasizes ethics, entrepreneurship, and global preparation;
- A collegial work environment that respects and encourages the contributions of everyone in the School of Management.

## **Vision Statement**

The Purdue University Calumet School of Management will provide an intellectually encompassing and comprehensive education that meets the needs of today's global business environment and empowers students to meet tomorrow's rapidly changing demands. In providing diverse learning opportunities and scholarly contributions to the field, the school will challenge students to be ethical and civically engaged business leaders who will utilize their entrepreneurial and technical skills to contribute to the economic development of Northwest Indiana and beyond. The faculty, staff, and students will effectively communicate these aims to the public that will in turn position Purdue Calumet to be the region's school of choice for a quality management degree grounded in academic rigor and social responsibility.

## **Programs**

The programs in Management, which are accredited by the International Assembly for Collegiate Business Education (IACBE), prepare students to advance their careers in business by providing a background in three general areas:

- liberal arts, to provide students with breadth of vision and perspective for lifelong learning;
- business foundation courses to provide the skills, perspectives of organizations and the environments in which they function;
- a specialty area in business to enhance the student's career goals.

## Academic Programs

### Bachelor of Science, Accounting

*This specialized degree is designed for students pursuing accounting careers and considering professional certification (CPA).*

### Bachelor of Science in Management

*A conventional business degree program with majors in Accounting, Business Economics, Finance, Human Resource Management, Management Information Systems, and Marketing.*

### Bachelor of Science, Computer Information Systems

*A new program of study in the area of Information Systems*

### Bachelor of Arts in Business

*A flexible, generalist program with majors in entrepreneurship, equine business management, human resources, or retailing.*

### Master of Business Administration

*A general graduate degree for students with bachelor degrees seeking to professionalize their management skills. This program is offered in different formats with convenient time frames.*

### Master of Accountancy

*This special masters is designed for accounting students.*

### Post-Baccalaureate Certificates

*Information Systems, Information Systems - E-Business, Information Systems - Project Management*

### Certificate

*Equine Management*

### Graduate Certificate

*Forensic Accounting & Fraud Investigation*

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## Minors

- Minor in Business
- Minor in Entrepreneurship
- Minor in Equine Management
- Minor in Human Resource Management
- Minor in Information Systems
- Minor in International Business
- Minor in Marketing

### Grading Scale Note and Clarification

Purdue University Calumet uses a 4.0 grading scale. Students pursuing a Bachelor of Arts in Business, Bachelor of Science in Accounting or a Bachelor of Science in Management must successfully complete the Pre-Business or Pre-Management core by earning a grade designated by a 2.0 or higher in each course. The Pre-Business or Pre-Management Core courses must be taken in the first three semesters. Each course must be successfully completed before the student takes any of the courses in their major. The six courses that fulfill the student's major must be successfully completed by earning a grade designated by a 2.0 or higher in each course.

### Experiential Learning Courses

The following classes have been awarded Experiential Learning designation by the Faculty Senate and may be used to fulfill a student's experiential learning requirements. Students should check <http://webs.purduecalumet.edu/management/majors-minors-and-certificates/experiential-learning-courses/> for updates to this list.

BA 39100	ENTR 40000	EQU 45000	MGMT 43300	MGMT 49500
CIS 40000	ENTR 40100	MGMT 42800	MGMT 45000	MGMT 49900
CIS 42600	EQU 30000	MGMT 42900	MGMT 48600	OBHR 44400

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## SOM Policies for Students

The following policies are in effect for all undergraduate students in the School of Management. Please note the effective date for each. The newest policies are listed first. Other policies applicable to all undergraduate students are found in the University Catalog.

### Admission standards for new freshmen:

*(Effective Spring 2011)*

#### Direct Acceptance to the Program of Study:

- Test Scores (SAT CR+M): 900 (1350)
- 5 subject area GPA **2.50**

#### Preparatory Admissions (DMG):

- Test Scores (SAT CR+M): 850-899
- 5 subject area GPA of at least **2.20**

#### Center for Student Achievement:

- Test Scores (SAT CR+M): 800-849
- 5 subject area GPA of at least **2.00**

### GPA Requirement to transfer, re-enter, re-admission, and CODO to the School of Management (Updated - effective for spring 2011)

Transfer students (including inter-campus transfers), Change of Degree Objective (CODO) students, Re-Entry students (former SOM student, stopped out for more than 2 years) and Re-Admits (former SOM student academically dismissed):

Direct acceptance into the Program of Study:

- 15 college transferring credits
- Cumulative college GPA of **at least 2.20**
- English 10400 (or equivalent) **with 2.0 minimum**
- Math 15300 (or equivalent) for BS degree or BA 10500 (or equivalent) for BA degree **with 2.0 minimum**

Preparatory Admissions (DMG):

- 15 college transferring credits
- Cumulative college GPA of at least 2.20
- Unprepared in English (English 10400 (or equivalent) **with a grade lower than 2.0**)

And/Or

- Unprepared in Math (Math 15300 (or equivalent) for BS degree or BA 10500 (or equivalent) for BA degree **with a grade lower than 2.0**)
- Center for Student Achievement
- Cumulative college GPA **lower than 2.20**

**Clarification of prerequisite requirements for MGMT 45000 (effective Summer 2010)**

Students must complete MGMT 31000, MGMT 32400, MGMT 36000, and OBHR 33000 all with a grade of C- or better in order to be able to take MGMT 45000.

**No enrollment in SOM classes after the first week of Classes (effective Spring 2010)**

The School of Management does not allow students to enroll into a SOM class after the first week of classes. Truly extenuating circumstances will be examined on a case by case basis by the appropriate department head.

**Extensions may only be allowed by the appropriate department head (effective Spring 2010)**

Students must seek the permission of the appropriate department head at all times (or the student's advisor may talk to the department head on the student's behalf). Instructors may not accept or refuse class extensions; they may only make recommendations to their head.

**Retaking Course (effective Spring 2010)**

This policy elucidates the "Retaking Courses" policy in effect since 05.15.06. Undergraduate students may repeat required courses in the School of Management Curriculum no more than two times within a five year period. This means that a student may enroll in a required course no more than three times because s/he failed, withdrew or was dropped out the course previously. Required courses in the School of Management curricula include pre-business, pre-management, core and major courses, as well as, remedial mathematics and English courses for those who need them. Core courses include MGMT 31000, MGMT 32400 and OBHR 33000 for the BS degrees. Core courses include BA 21000, BA 22400 and BA 23000 for the BA degrees.

**Case of transfer students facing a changed SOM curriculum as of Fall 2009 (effective Fall 2009)**

All transfer students must automatically enroll into the new SOM curriculum dated Fall 2009.

**Case of returning students facing a changed SOM curriculum as of Fall 2009 (effective Fall 2009)**

Returning students who interrupted their studies at PUC for a term or more may continue the curriculum described in the Course Catalog on the date of their joining SOM. They may also opt into the new curriculum which offers some real advantages: fewer required credit hours for the degree and exposure to global business.

Case of re-admitted students facing a changed curriculum as of Fall 2009 (effective Fall 2009)

Re-admitted students must follow the new curriculum in effect at the time of their re-entry. Truly extenuating circumstances will be examined on a case by case basis by the appropriate department head.

**Clarification of "C or better" policy for pre-business, pre-management, and major courses (effective Fall 2009)**

Students are presently required to earn a C or better in their pre-business or pre-management core, major courses, and for Mgmt 45000 (BS students). With the introduction of the plus/minus grading scale by the University, the School of Management is clarifying this requirement for students in the School of Management. The "C or better" requirement will be interpreted as meaning a grade designated by a 2.0 grade index or higher in each designated course. Therefore, grades of C-minus or below do not satisfy the "C or better" requirement and students earning a C-minus or below in the designated courses will be required to repeat the course until a satisfactory grade is earned.

**Change in BA Program – new pre-business requirements and grade requirements for major classes (effective for students starting Fall 2008 and later)**

The BA program now has a pre-business core consisting of the following courses: ENGL 10400, COM 11400, Lab Science, PSY 12000 or SOC 10000, MGMT 10100, ENGL 10500, ENTR 10000, BA 10500, MGMT 10200, ECON 21000, BA 12000, and one course in the FR. Lang, Com or PSY sequence. Students must complete these courses with a grade of C or better and must complete these courses before declaring an option and moving on to more advanced classes.

Also students must earn a grade of "C" or better in the six courses for their major.

**Policy on Dual Degrees/Dual Majors (effective 07.23.07)**

A student enrolled at SOM may pursue two majors concurrently by working to satisfy all degree requirements for the two majors. The student may not graduate with one major and expect to come back later to finish the other major. The student must complete all requirements for the two majors before graduation in order to graduate with a dual major.

A student enrolled at SOM may pursue a major and a minor by working to satisfy all degree requirements for the major and minor. The student may not graduate with the major and expect to come back later to finish the minor. The student must complete all requirements for the major and the minor before graduation in order to graduate with a major and a minor.

A student who has graduated with one major may not come back and take the junior/senior level courses in another major, counting some of the previous elective coursework towards this second major, and expect to graduate again with a second major. Similarly, a student who has graduated with the BS in Accountancy or the major in Accounting may not expect to come back and attend a few additional courses in order to graduate with a second degree in Accounting.

A student enrolled at SOM may not pursue both the BS in Accountancy and the BS in Management with a major in Accounting; the two degrees present too much overlap. A student enrolled in either of the degrees above who wishes to round up his/her education should be encouraged to pursue a second major with a different thrust than accounting, or a minor in a secondary field. IS, MIS and Finance are often the chosen complements to Accounting.

If a student who has graduated with a Bachelor's degree from the School of Management wishes to come back to Purdue Calumet for further studies in a different discipline, s/he should be encouraged to pursue a graduate degree or a certificate.

**Acceptance of Transfer Credit for Major Courses (effective 05.15.06)**

Transfer credit is accepted for no more than two courses within the undergraduate majors without permission of the appropriate department head. This policy applies to the six major courses required for the BS in Management, the six business option courses required for the BA in Business, and the seven major courses required for the BS in Accounting.

**Retaking Courses (effective 05.15.06)**

Undergraduate students may repeat required courses in the School of Management curriculum no more than two times each within any five year period. Required courses are those specified on the plans of study for each of the undergraduate programs. This means that a student may take a required course no more than three times whether the student retakes the course because s/he failed the course or because s/he withdrew from the course. This policy applies to classes taken after May 15, 2006.

**Distance Learning Policy (effective 10.10.05)**

The following guidelines will be used for enrollment in all School of Management distance learning classes:

Students must have an overall GPA of 2.5 or greater to be eligible to take any School of Management courses online.

Students currently on probation are not eligible to enroll in any School of Management distance learning classes.

Students who received two or more grades of D, F, or W in any School of Management distance learning course are not eligible to take that course online.

If you do register online for a distance learning course and do not meet the guidelines above, you will be administratively withdrawn from the course prior to the start of classes.

# Bachelor of Arts in Business

(121-122 CREDITS)

This program requires a general education component and a business major. The remainder of the program is flexible, providing many creative alternatives for the student, including minors and options in other areas.

## Pre-Business Core: (36 credits)

The 12 courses in the pre-business core must be completed with a grade index of 2.0 or better in each course. These pre-business courses must be completed before the student takes any of the courses in their option. The six courses in the student's major must also be completed with a grade index of 2.0 or better.

COM 11400	Fundamentals of Speech
ENGL 10400	English Composition I
ENGL 10500	English Composition II

## Lab Science

PSY 12000	Elementary Psychology
<b>OR</b>	
SOC 10000	Introduction to Sociology
MGMT 10100	Introduction to Business
MGMT 10200	Computer Utilization for Management
ENTR 10000	Introduction to Entrepreneurship
BA 10500	Quantitative Methods for Business
BA 12000	Principles of Accounting I
ECON 21000	Principles of Economics

## Foreign Languages or Communication or Psychology: (3 credits)

Completion of the 36 credits in Pre-Business with a grade index of 2.0 or better in each course and complete the additional requirements below.

### 1. Communicative Skills

ENGL 42000	Business Writing
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The student will also complete a series of four courses in one of the following areas - Foreign Languages or Communication or Psychology: Choose one track. Note: one course from this requirement may have been completed in the Pre-Business block of coursework. (Not required for the Equine Management program.)

### Foreign Languages: (12 credits)

A four course sequence in foreign language as through course level 202. Students with advanced placement will require a minimum six credit hours at least through course level 202 with a maximum of three credit hours departmental credit.

### Communication — four oratorical skill courses selected from: (12 credits)

COM 21300	Voice and Diction
COM 25000	Mass Communication and Society
COM 31400	Advanced Public Speaking
COM 31500	Speech Communication of Technical Information
COM 31800	Principles of Persuasion
COM 32000	Small Group Communication
COM 32300	Business and Professional Speaking
COM 32500	Interviewing Principles and Practice
COM 42000	Introduction to Organizational Communication

### Psychology — four behavioral courses selected from: (12 credits)

PSY 31000	Sensory and Perceptual Processes
PSY 31100	Human Learning and Memory
PSY 31400	Introduction to Learning
PSY 33300	Motivation
PSY 37000	Environmental Psychology
PSY 37300	Psychology in Industry
PSY 37400	Organization
PSY 38600	Consumer Behavior

### 2. Computer Utilization

MGMT 21100	Management Information Systems
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(Not required for Equine Management program)

### 3. Math and Science

STAT 13000	Statistics and Contemporary Life
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### 4. Humanities and Social Sciences

ECON 21100	Contemporary Economic Problems
PHIL 32400	Ethics for the Professions

(Not required for Equine Management program.)

A minimum of 15 credits. Students may select a second course in Psychology or Sociology and at least one approved course in each of the following areas: History, International Studies, Government, and Aesthetics or literature, or pursue a minor in Arts, Science, or Social Science.

### 5. Business Core

BA 12100	Principles of Accounting II
BA 21000	Principles of Finance
BA 22400	Principles of Marketing
BA 23000	Principles of Management
BA 23100	Principles of Human Resources
BA 36100	Business Operations
MGMT 22400	Principles of Marketing
MGMT 30100	Management Career Lectures
MGMT 35400	Legal Foundations of Business I
MGMT 38000	International Business

### 6. Major Courses (6 courses)

CHOOSE A, B, C, or D

Students pursuing a degree program listed below must successfully complete six major courses with a grade index of 2.0 or better in each course.

#### A. Entrepreneurship Major

Required:

ENTR 30000	Growing the Firm
ENTR 42000	Business Plan Development

Choose four (4) courses from the following, at least two (2) from Entrepreneurship (ENTR designator):

ENTR 30100	Introduction to Technical Entrepreneurship
ENTR 30200	Innovation & New Product Development
ENTR 30300	Entrepreneurial Finance
ENTR 40000	Small Business Consulting
ENTR 40100	Social Entrepreneurship
MGMT 31800	E-Business Strategy
MGMT 38000	International Business
OLS 35000	Applied Creativity for Business and Industry
OLS 35100	Innovation and Entrepreneurship
BA 39100	Business Internship
MGMT 48600	Project Management
MGMT 48700	Knowledge & Decision Management
OBHR 42300	Negotiations

Or other 30000 or 40000 level course approved by the advisor.

#### B. Retailing Major

Required:

MGMT 42400	Consumer Behavior
MGMT 42600	Retailing
MGMT 43300	Personal Selling
MGMT 43400	E-Marketing

Select two (2) from:

MGMT 33300	Total Quality Management
MGMT 42100	Promotions Management
MGMT 42200	International Marketing
MGMT 42500	Marketing Research
MGMT 42700	Sales Management
MGMT 42800	Advertising Management
MGMT 42900	Advertising Campaigns
MGMT 42500	Services Marketing

OBHR 42300	Negotiations
BA 39100	Business Internship

Or other 30000 or 40000 level courses approved by the advisor.

### C. Human Resources Major

Required:

OBHR 43300	Staffing
OBHR 43400	Benefits Administration
OBHR 43900	Employment Law

Select THREE (3) from:

OBHR 42300	Negotiations
OBHR 42600	Training and Managerial Development
OBHR 42700	Occupational Safety and Health
OBHR 43000	Labor Relations
OBHR 43500	Compensation Management
OBHR 43600	Collective Bargaining
OBHR 43700	Managing Career Development
OBHR 43800	Managing Workforce Diversity
OBHR 44300	Legal/Social Issues in HRM
MGMT 33300	Total Quality Management

Or other 30000 or 40000 level courses approved by the advisor.

### D. Equine Business Management Major

Required:

EQU 10000	Introduction to Equine Management
EQU 22000	Global Perspective of Equine Industry
EQU 30000	Equine Internship
EQU 32000	Equine Taxation
EQU 34000	Equine Ethical Issues
EQU 35000	Equine Event Operations
EQU 37000	Equine Sales and Services Marketing
EQU 40000	Equine Legal Issues
EQU 45000	Equine Senior Project

Select one (1) from:

EQU 33000	Equine Staff Management
EQU 42000	Horse Racing and Gaming Systems
EQU 48000	Horse Show Project Management

Free Electives – 2 course

## Bachelor of Science Pre-Management

### Pre-Management Requirements

(36 CREDITS)

Students pursuing a Bachelor of Science degree program in Management must successfully complete the Pre-Management curriculum (with a grade index of 2.0 or better in each of the courses) before taking upper-level courses (30000 level or higher) in Management, Economics or Organizational Behavior.

#### 1. Communicative Skills

ENGL 104000	English Comp. I
<b>AND</b>	
ENGL 10500	English Comp. II
COM 11400	Fundamentals of Speech

#### 2. Science and Mathematics

**Science.** One lab science course from:

Biology, Chemistry, Earth and Atmospheric Science, Physics, or Science.

**Math.** One sequence of:

MA 15300	Algebra and Trig. I
MA 22500	Calculus for Business and Econ I

**OR**

Equiv. math courses approved by a Management advisor.

**Computer Applications.**

MGMT 10200	Computer Utilization in Management
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### 3. Behavioral Science

One introductory 3-credit course in Psychology or Sociology

### 4. Management and Economics

MGMT 10000	Management Lectures
MGMT 10100	Intro. to Business
MGMT 20000	Intro. Accounting
ECON 25100	Microeconomics

### 5. Elective (one course)

One other school-approved general education course.

## Bachelor of Science, Accounting

(122 CREDITS)

Pre-Management courses plus:

#### 1. Required Management and Economics Courses

ECON 25200	Macroeconomics
MGMT 20100	Management Accounting
MGMT 22500	Fund. Management Stats.
MGMT 30100	Management Career Lectures
MGMT 31000	Financial Management
MGMT 21100	Management Information Systems
MGMT 32400	Marketing Management
MGMT 35400	Legal Found. of Business
MGMT 36000	Production/Operations Mgmt.
MGMT 38000	International Business
MGMT 45000	Corporate Strategy: Capstone
OBHR 33000	Intro. to Organizational Behavior

#### 2. Humanities

ENGL 42000	Business Writing
PHIL 32400	Ethics for Professions

#### 3. Electives

Two business electives from upper division courses in management, economics, entrepreneurship, or OBHR; five approved General Education electives.

#### 4. Major Courses (seven)

MGMT 35000	Intermediate Accounting I
MGMT 35100	Intermediate Accounting II
MGMT 40400	Tax Accounting
MGMT 40600	Auditing
MGMT 40700	Advanced Managerial Accounting

Three additional upper level accounting courses approved by an academic advisor.

## Bachelor of Science, Management

(122 CREDITS)

Pre-Management courses plus:

#### 1. Required Management and Economics Courses

ECON 25200	Macroeconomics
MGMT 20100	Management Accounting
MGMT 22500	Fund. Management Stats.
MGMT 30100	Management Career Lectures
MGMT 31000	Financial Management
MGMT 21100	Management Information Systems
MGMT 32400	Marketing Management
MGMT 35400	Legal Found. of Business
MGMT 36000	Production/Operations Mgmt.
MGMT 45000	Corporate Strategy: Capstone
OBHR 33000	Intro. to Organizational Behavior

#### 2. Humanities

ENGL 42000	Business Writing
PHIL 32400	Ethics for Professions

### 3. Electives

Four business electives from upper division courses in management (MGMT), economics (ECON), Entrepreneurship (ENTR) and Organizational Behavior (OBHR); and six approved General Education electives.

### 4. Major Courses (six courses).

Choose A, B, C, D, E, or F.

Students pursuing a degree program listed below must successfully complete six major courses with a grade index of 2.0 or better in each course.

#### A. Accounting Major

MGMT 35000	Inter. Accounting I
MGMT 35100	Inter. Accounting II
MGMT 40400	Tax Accounting
MGMT 40600	Auditing

Two additional accounting courses approved by the accounting academic advisor.

#### B. Business Economics Major

ECON 35100	Intermediate Microeconomics
<b>OR</b>	
ECON 41900	Managerial Economics
ECON 35200	Intermediate Macroeconomics
<b>OR</b>	
ECON 38000	Money and Banking
ECON 36000	Econometrics
<b>OR</b>	
ECON 46500	Economic Forecasting Techniques

The student would then complete three additional ECON courses, 30000-level or above, as approved by the academic advisor.

#### C. Finance Major

MGMT 34000	Corporate Financial Problems
MGMT 35000	Intermediate Accounting
MGMT 41200	Money and Capital Markets
MGMT 44300	Fundamentals of Investments

Two additional finance courses approved by the finance academic advisor.

#### D. Human Resource Management Major

Required:

OBHR 43100	Human Resource Mgmt.
OBHR 43300	Staffing Organizations
OBHR 43400	Benefits Administration
OBHR 43900	Employment Law

Select TWO (2) from:

OBHR 42300	Negotiations
OBHR 42600	Training and Managerial Development
OBHR 42700	Occupational Safety and Health
OBHR 43500	Compensation Management
OBHR 43600	Collective Bargaining and Negotiations
OBHR 43700	Managing Career Development
OBHR 43800	Gender and Diversity in Management
OBHR 44300	Legal/Social Issues in HRM
MGMT 33300	Total Quantity Management

Or other courses as approved by the academic advisor

#### E. Marketing Major

MGMT 42100	Promotions Management
MGMT 42400	Consumer Behavior
MGMT 42500	Marketing Planning, and Research
MGMT 43300	Personal Selling

Select TWO (2) from:

MGMT 42200	International Marketing
MGMT 42600	Retailing
MGMT 42700	Sales Management
MGMT 42800	Advertising Management
MGMT 42900	Advertising Campaigns
MGMT 43400	E-Marketing
MGMT 43500	Services Marketing
ECON 46500	Economic Forecasting Techniques

ECON 36000	Econometrics
ENTR 30000	Small Business Management
OBHR 42300	Negotiations

Or other courses as approved by marketing advisor.

#### F. Management Information Systems Major

MGMT 30700	Systems Analysis and Design
MGMT 30800	Database Mgmt. Analysis and Design
MGMT 31800	E-Business Strategy
MGMT 48600	Project Management

Select TWO (2) from:

MGMT 32500	Logistics
MGMT 41600	Information Systems Control and Audit
MGMT 48700	Knowledge Management and Business Intelligence
MGMT 48300	Data Communication in Business
MGMT 49000	Visual Basic for Management
MGMT 32200	Electronic Spreadsheet for Business
MGMT 32000	E-Business Applications
MGMT 49000	Advanced Database Management

## Bachelor of Science, Computer Information Systems

(121 CREDIT HOURS)

#### Communications

COM 11400	Fundamentals of Speech Communication
ENGL 10400	English Composition I
ENGL 10500	English Composition II
COM 32500	Interviewing: Principles & Practice
ENGL 42000	Business Writing
Communications or English Elective	

#### Mathematics/Science

MA 15300	Algebra and Trig I
MA 22500	Calc for Business & Economic I
STAT 30100	Elementary Statistical Methods
Lab Science Elective	

#### Humanities & Social Science

PHIL 12000	Critical Thinking
Social Science Electives	

#### General Education

Gen. Ed. Elective

#### Management Core

MGMT 10000	Management Lectures I
MGMT 10100	Introduction to Business
MGMT 21100	Principles of Information Systems
MGMT 31800	E-Business Applications
MGMT 35400	Legal Found. Of Business I
MGMT xxxxx	Business Elective (Finance or Marketing)
OBHR 33000	Introduction to Organizational Behavior

#### Computer Information Systems

ECET 11000	Computer Systems Architecture
CIS 11100	Intro to H-C Interaction
CIS 14000	Introduction to Networks
CIS 16600	Introduction to Programming
CIS 20400	Introduction to Computer Based Systems
CIS 24100	Web Development
CIS 25200	Systems Analysis and Design
CIS 25300	Applied Database Techniques
CIS 26300	Java Programming
CIS 26600	C++ Programming

CIS 35300	Advanced Database Methods
CIS 41300	IS Auditing & Assurance
CIS 42400	Object Oriented Analysis & Design
CIS 42600	Applied Software Development Project
CIS 48000	IT Project Management
_____	CIS/MIS Elective
_____	CIS/MIS Elective
_____	CIS/MIS Elective
_____	CIS Elective

**Program Notes:**

1. The program requirements are determined by the date a student officially becomes an IS major.
2. A grade of a "C" or better is required in each CIS major course. CIS courses in which lower grades have been received must be retaken before progressing to the next course in the sequence. An incomplete is not considered a passing grade.
3. Only two CIS courses may be repeated because of an unsatisfactory (D or F) grade. These courses may be repeated one time.
4. No student shall choose the pass/not pass option for a CIS course. Advisor agreement is required for any other course.
5. Students may test out of up to two CIS courses and must receive credit from 6 courses in list of IS courses.
6. Students not prepared to take MA 21400 will be required to take a necessary prerequisite math class.
7. Communications or English Elective is defined as an elective from the Department of English and Philosophy or the Department of Communications and Creative Arts as approved by the department head.
8. Social Science Elective is defined as one of the following: Anthropology, Communications, Economics, Political Science, Psychology or Sociology.
9. General Education Elective Is defined as one of the following: English, Math, Communications, Humanities or Social Science.
10. Lab Science Elective is defined as one of the following: Science 11200, Astronomy, Geology, Biology, Physics or Chemistry.
11. CIS/MIS Elective is defined as an elective from the CIS or MIS course offerings as approved by the department head.

## Post Baccalaureate Certificate, Information Systems

(18 CREDIT HOURS)

*Admission Requirements: Students wishing to complete this certificate must apply for admission to the certificate program and provide a transcript from an accredited institution of higher education to verify receipt of a bachelor's degree.*

**Required Courses**

MGMT 21100	Management Information Systems
MGMT 31800	E-Business Strategy

*Four more courses to be chosen from the following list:*

CIS 11100	Computer Human Interaction
CIS 42400	Object-Oriented Analysis and Design
MGMT 31800	E-Business Strategy
MGMT 32000	E-Business Applications
CIS 20000	Information Systems Policies
CIS 40000	Information Systems Strategic Planning
CIS 1800	Introduction to Project Mgmt
CIS 25200/ MGMT 30700	Systems Analysis and Design
MGMT 30800	Database Analysis and Design
CIS 41300	Information Systems Auditing & Assur.
	<b>OR</b>
MGMT 41600	Information Systems Control and Audit
CIS 41400	Information Systems Prof. & Ethics
MGMT 48600	Project Management

## Post Baccalaureate Certificate, Information Systems — E-Business Management

(18 CREDITS)

*Admission Requirements: Students wishing to complete this certificate must apply for admission to the certificate program and provide a transcript from an accredited institution of higher education to verify receipt of a bachelor's degree.*

MGMT 21100	Management Information Systems
MGMT 31800	E-Business Strategy
MGMT 32000	E-Business Applications
CIS 14000	Computer Networks in Business
	<b>OR</b>
MGMT 48300	Data Communication in Business
MGMT 48700	Knowledge Management and Business Intelligence

## Post Baccalaureate Certificate, Information Systems — Project Management

(18 CREDITS)

*Admission Requirements: Students wishing to complete this certificate must apply for admission to the certificate program and provide a transcript from an accredited institution of higher education to verify receipt of a bachelor's degree.*

MGMT 21100	Management Information Systems
CIS 20000	Information Systems Policies
CIS 25200/ MGMT 30700	Systems Analysis and Design
CIS 18000	Introduction to Project Management
CIS 41300	Information Systems Auditing & Assurance
	<b>OR</b>
MGMT 41600	Information Systems Control and Audit
MGMT 48600	Project Management

## Certificate in Equine Management

(18 CREDITS)

**Required Courses**

EQU 10000	Introduction to Equine Management
EQU 22000	Global Perspective of Equine Industry

*Elective Courses — Choose a specialization from A, B, C or D. 4 courses from the list below:*

**A. Equine Business Management**

Mgmt 10100	Introduction to Business
	Nine additional credits in equine courses

**B. Equine Stable & Farm Management**

MGMTt 10100	Introduction to Business
EQU 32000	Equine Taxation
EQU 40000	Equine Legal Issues
ANSC 44000	Horse Farm Management

**C. Equine Event and Show Management**

MGMT 10100	Introduction to Business
EQU 33000	Equine Staff Management
EQU 35000	Equine Event Operations
EQU 48000	Horse Show Project Management

**D. Equine Sales and Marketing**

EQU 34000	Equine Legal Issues
EQU 37000	Equine Sales and Services Marketing
ANSC 37200	Horse Evaluation
EQU 30000	Equine Internship
	<b>OR</b>
EQU 49000	Equine Industry Business Travel

## Minor in Business

(24 CREDITS)

Minimum "C" required in each of the following:

MGMT 20000	Introductory Accounting
MGMT 20100	Managerial Accounting
ECON 25100	Microeconomics
MGMT 22500	Fundamental Business Statistics
MGMT 31000	Financial Management
OBHR 33000	Introduction to Organizational Behavior
	<b>OR</b>
OBHR 43100	Human Resource Management
MGMT 22400	Principles of Marketing
	<b>OR</b>
MGMT 32400	Marketing Management
MGMT 33300	Total Quality Management
	<b>OR</b>
MGMT 36000	Operations Management

## Minor in Entrepreneurship

(15 CREDITS)

Required:

ENTR 10000 Introduction to Entrepreneurship

and four courses (4) from list below, preferably from ENTR courses:

ENTR 30000	Growing the Firm
ENTR 30100	Introduction to Technical Entrepreneurship
ENTR 30200	Innovation & New Product Development
ENTR 30300	Entrepreneurial Finance
ENTR 40000	Small Business Consulting
ENTR 40100	Social Entrepreneurship
ENTR 42000	Business Plan Development
MGMT 31800	E-Business Strategy
MGMT 38000	International Business
OLS 35000	Applied Creativity for Business and Industry
OLS 35100	Innovation and Entrepreneurship
BA 39100	Business Internship
MGMT 48600	Project Management
MGMT 48700	Knowledge & Decision Management
OBHR 42300	Negotiations

or other 30000 or 40000 level course approved by the advisor

## Minor in Equine Management

(15 CREDITS)

Required:

EQU 10000	Introduction to Equine Management
EQU 22000	Global Perspective of Equine Industry
EQU 34000	Equine Ethical Issues

ELECTIVE: Chose 2 courses from list

EQU 20000	Software for Equine Operations
EQU 32000	Equine Taxation
EQU 33000	Equine Sport Facility Management
EQU 35000	Equine Operations
EQU 37000	Equine International Sales and Marketing
EQU 40000	Equine Legal Issues
EQU 42000	Horse Racing and Gaming Systems
EQU 45000	Horse Show Project Management

## Minor in Human Resource Management

(15 CREDITS)

Required:

MGMT 10100	Intro. to Business
	<b>OR</b>
OBHR 33000	Intro. to Organizational Behavior
	<b>AND</b>
OBHR 43100	Human Resource Management
OBHR 43300	Staffing

Select TWO (2) from:

MGMT 33300	Total Quality Management
OBHR 42300	Negotiations
OBHR 42600	Training and Managerial Development
OBHR 42700	Occupational Safety and Health
OBHR 43000	Labor Relations
OBHR 43400	Benefits Administration
OBHR 43500	Compensation Management
OBHR 43600	Collective Bargaining and Negotiations
OBHR 43700	Managing Career Development
OBHR 43800	Gender and Diversity in Management
OBHR 43900	Employment Law

Or others as approved by the advisor.

## Minor, Information Systems

(18 CREDITS)

CIS 20400 or MGMT 10200 required as the first course.

An additional 5 courses may be selected from the MIS and CIS course offerings from the IS department.

## Minor, International Business

(15 CREDITS)

MGMT 38000	International Business
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Three from:

MGMT 42200	International Marketing
MGMT 44900	International Financial Management
MGMT 48900	International Management
ECON 43400	International Trade

And one additional course approved by the School of Management which may include one of the above

## Minor, Marketing

(15 CREDITS)

Required:

MGMT 22400	Principles of Marketing
	<b>OR</b>
MGMT 32400	Marketing Management
	<b>AND</b>
MGMT 42100	Promotions Management
MGMT 42400	Consumer Behavior

Select TWO (2) from:

MGMT 42200	International Marketing
MGMT 42500	Marketing Research
MGMT 42600	Retailing
MGMT 42700	Sales Management
MGMT 42800	Advertising Management
MGMT 42900	Advertising Campaigns
MGMT 43300	Personal Selling
MGMT 43400	E-Marketing
MGMT 43500	Services Marketing
OBHR 42300	Negotiations
ENTR 30000	Small Business Management

Or others as approved by the advisor.

## Master of Business Administration

(45 CREDITS)

### Admission Requirements

1. Proof of baccalaureate degree
2. Results from the Graduate Management Admission Test
3. Capacity for management responsibility
4. Recommended: six credits of undergraduate calculus

### Program Description

The program effectively requires that all graduate students complete a minimum of 45 graduate credit hours.

A student accepted into the program with a satisfactory background in Phase I begins the course of study from Phase II. For this class of students, a minimum of 36 graduate credit hours must be completed toward graduation, of which 24 hours must be drawn from the core.

### Degree Requirements

#### PHASE I: Foundation Courses

ECON 51300	Economic Theory (3 hrs.)
MGMT 60000	Accounting for Managers (3 hrs.)
MGMT 61100	Financial Management II (3 hrs.)
MGMT 62000	Marketing Management I (3 hrs.)
MGMT 63000	Legal and Social Foundations of Mgmt. (3 hrs.)
MGMT 67000	Business Analytics (3 hrs.)
OBHR 68100	Behavior in Organizations (3 hrs.)

#### PHASE II: Core Courses

MGMT 60100	Managerial Accounting (3 hrs.)
MGMT 61200	Financial Management III (3 hrs.)
MGMT 62200	Marketing Strategy (3 hrs.)
MGMT 65000	Strategic Management (3 hrs.)
MGMT 66000	Operations Management (3 hrs.)
MGMT 67100	Quantitative Methods II (3 hrs.)
MGMT 68000	Intro. to Information Technology (3 hrs.)
OBHR 63300	Human Resource Management (3 hrs.)

#### PHASE III: Electives

Specified courses from accounting, finance, marketing, economics, or general management at the 50000 level or above. See advisor for list of approved courses.

### Transfer of Credit

Undergraduate credits may not be used to satisfy master's degree requirements. Transfer credits, in general, are not accepted. In exceptional cases, however, graduate credits not exceeding six hours may be transferred into the program. Exceptional cases are individually considered by the Graduate Management Committee. Transfer credits are allowed only after one semester of satisfactory work in residence at Purdue University. The minimum grade for transfer credits is a B.

## Master of Accountancy

(30 CREDITS)

### Admission Requirements

1. Admission requires an undergraduate degree with a major or concentration in accounting, a graduate index of 3.0/4.0 and satisfactory performance on the GMAT examination.
2. Applications from students whose undergraduate degree major is not accounting may be considered provided that they have completed a sufficient number and variety of accounting courses to satisfy the prerequisites for the master's level courses required by the program.

### Program Description

A minimum of 30 semester credit hours of graduate level course work is required to complete this program. There are seven required courses (21 credit hours) in this curriculum and a minimum of three electives (9 credit hours). The degree requirements are outlined here. *(All courses are three-semester-credit-hours).*

### Required Courses (21 credit hours)

MGMT 50100	Advanced Taxation
MGMT 50600	Auditing
MGMT 50900	International Accounting
MGMT 52600	Commercial Law
MGMT 52700	Accounting Theory
MGMT 53400	Accounting Practice
MGMT 68000	Introduction to Information Technology

#### Elective Courses (9 credit hours):

MGMT 50300	Advanced Accounting
MGMT 59000	Governmental Accounting
MGMT 59000	Financial Statement Analysis
MGMT 59000	Corporate Governance
MGMT 59000	Auditing II

or other graduate level courses approved by the Master of Accountancy Advisor.

### Transfer of Credit

Undergraduate credits may not be used to satisfy master's degree requirements. Transfer credits, in general, are not accepted. In exceptional cases, however, graduate credits not exceeding six hours may be transferred into the program. Exceptional cases are individually considered by the Graduate Committee. Transfer credits are allowed only after one semester of satisfactory work in residence at Purdue University. The minimum grade for transfer credits is a B.

*School of*  
NURSING

# School of NURSING

Peggy Gerard, Dean  
[www.purduecal.edu/nursing](http://www.purduecal.edu/nursing)

## Undergraduate Nursing Program

219/989-2814, 800-HI-PURDUE, ext. 2814, Gyte Annex, Room 138

## Graduate Nursing Program

219/989-2815, 800-HI-PURDUE, ext. 2815, Gyte Annex, Room 138

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## Undergraduate Degree Programs

- Bachelor of Science Degree, Nursing
  - Professional Option
  - Accelerated Second Degree BS Option
  - LPN Transitioning to BS Option
  - Online RNBS, Completion Option

## Graduate Level Programs

- Master of Science Degree, Nursing
  - Clinical Nurse Specialist Option (Adult Health or Critical Care)
  - Family Nurse Practitioner Option
  - Nurse Executive Option
- Post-Master's Level Nursing Education Certificate Program
- Post-Master's Level Family Nurse Practitioner Certificate Program
- Post-Master's Level Adult Health Clinical Nurse Specialist Certificate Program
- Post-Master's Level Critical Care Clinical Nurse Specialist Certificate Program

*All programs are accredited by the National League for Nursing Accrediting Commission (NLNAC).*

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## Career Opportunities

Graduates of the School of Nursing may work as registered nurses in hospitals, long-term care facilities, outpatient centers and a variety of community settings. Students who earn advanced degrees may pursue careers as clinical nurse specialists in adult health or critical care nursing, nurse practitioners in family health nursing, nurse educators, nurse administrators and more.

# School of Nursing

**Peggy S. Gerard, Dean.** *Faculty:* R. Alexander (Emeritus); C. Anema; M. Block; J. Boling; L. Buechley (Emeritus); M. Cahn (Emeritus); C. Cooke; Joan Dorman; M. G. Engle (Emeritus); R. Faur (Emeritus); R. Fife; K. Florek; K. Fontaine; R. M. Givens (Emeritus); L. Hopp; D. Huffman; D. Kark; P. Kelly-Heidenthal (Emeritus); K. Kleefisch; M. Marthaler; E. McGuire (Emeritus); L. Miskovich; E. Moore; C. Moredich; K. Nix; L. Orlich (Emeritus); H. M. Plawecki (Emeritus); C. Reid (Emeritus); L. Rittenmeyer; G. Smokvina (Emeritus); J. Stryczek (Emeritus); Roseann Zahara-Such; J. Tazbir; M. A. Thomas (Emeritus); B. Vottero; J. Walker; B. Watts (Emeritus); G. Wegner; Jamie Zweig

*Nursing Advisors:* Heather Cook; Kathleen Galovic; Patricia Mellon

*Nursing Resource Center Coordinator:* Carol Magliola

*Coordinator Instructional Design:* Jill Ullmann

The School of Nursing offers innovative program options to meet the professional needs of students for entry into nursing or for advanced preparation. The undergraduate program offerings which prepare nurses to enter practice and meet eligibility requirements for NCLEX are: Bachelor of Science Professional Option, Accelerated Second Degree B.S. Option and LPN transitioning to Bachelor of Science. These programs and the RNBS, Nursing Completion Option are designed to prepare a nurse generalist to provide comprehensive nursing care for people of all ages within a variety of health care settings. In addition, the degree options provide academic preparation for advanced degrees in Nursing. The Master's level program prepares Clinical Nurse Specialists in Adult Health or Critical Care, Family Nurse Practitioners, and Nurse Executives. Students make take electives in courses that are relevant for the chosen area of specialization. Four master's level certificate programs in Nursing Education, Adult Health, Clinical Nurse Specialist, Critical Care Clinical Nurse Specialist and Family Nurse Practitioner are also available. The graduate program has a strong clinical emphasis and prepares graduates for diverse leadership roles. All programs are accredited by the National League for Nursing Accrediting Commission (NLNAC).

Throughout the programs, various part-time and full-time employment opportunities are available in local health care agencies giving students work experience that relates to their university studies. Flexible schedules allow students to pursue programs part-time and full-time. These are university programs, with students sharing in the social and cultural aspects of college life, while developing their potential as persons, citizens, and nurses. Admission to nursing programs is competitive and is determined by program admission committees in the School of Nursing. Special requirements for admission and progression are available through the School.

## Programs

### ■ Undergraduate

- Bachelor of Science, Nursing
  - ~ Professional Option
  - ~ Accelerated Second Degree B.S. Option
  - ~ LPN to BS Option
  - ~ Online RNBS, Completion Option

### ■ Graduate

- Master of Science, Nursing
  - ~ Clinical Nurse Specialist (Adult Health or Critical Care) (on-campus or on-line)
  - ~ Family Nurse Practitioner (on-campus or on-line)
  - ~ Nursing Executive
- Post-Master's level Nursing Education certificate program
- Post-Master's level Family Nurse Practitioner certificate program (on-campus or on-line)
- Post-Master's level Clinical Nurse Specialist certificate program (on-campus or on-line)
- Post-Master's level Critical Care Clinical Nurse Specialist certificate program (on-campus or on-line)

## Admission Requirements for the UNDERGRADUATE PROGRAM (LEADING TO THE RN) FOR BACHELOR'S PROFESSIONAL OPTION APPLICANTS

*The applicant must be officially accepted by the University before his or her application can be considered for admission to the School of Nursing. Application forms for admission to the University must be obtained from the Office of Admissions, Lawshe Hall, Purdue University Calumet, Hammond, IN, 46323. If the applicant has previously attended Purdue University Calumet, but has not been enrolled for three semesters or longer, he/she must make reapplication to the University Admissions Office.*

*Admissions are once yearly for the Fall semester and applications must be completed by February 1st. This is a limited enrollment program. Admission is competitive. Applicants are considered on the basis of test scores, prior academic achievement and space available.*

*When more qualified applicants than openings are available, applicants will be ranked by the Undergraduate Nursing Admission, Progression and Graduation Committee. The best qualified applicants will be admitted. If you have any questions please see your advisor.*

*The following admission criteria must be submitted to the Office of Admissions:*

1. Application to the Undergraduate Degree Program in Nursing
2. High School transcript or high school equivalence credentials; the applicant with a GED must complete 9 hours of University credit or have a SAT composite of 1000 or above before they will be considered for admission.
3. Post-high school transcripts.
4. SAT/ACT scores

*EACH APPLICANT IS RESPONSIBLE FOR SUBMITTING THE ABOVE ADMISSION CRITERIA. CONSIDERATION FOR ADMISSION WILL NOT BE GIVEN UNLESS ALL RECORDS ARE RECEIVED IN THIS DEPARTMENT BY THE DEADLINE DATE.*

### 1. BEGINNING STUDENTS

*(students who have not attended any college/university)*

**A.** SAT/ACT scores 1000 or higher, (or equivalent English/Mathematics Placement Test Scores).

**B.** Meets following high-school subject matter:

English	8 sem.
Algebra	4 sem.
Geometry	2 sem.
Chemistry	2 sem.
Biology	2 sem.
Add'l. Lab Science	2 sem.

*(Biology, Physics, Anatomy and Physiology recommended)*

*Note: Applicants who do not meet the Nursing admission requirements but do meet general university requirements will be admitted to Center for Student Achievement.*

## 2. CHANGE OF DEGREE, TRANSFER, OR SECOND DEGREE STUDENTS

Eligibility for admission by the Nursing Admission, Progression and Graduation Committee is determined by the following minimum criteria:

1. Minimum 2.75/4.0 cumulative grade point average is required in 12 semester credit hours of required core courses from the undergraduate nursing curriculum plan.
2. The required twelve semester credit hours must include a minimum of six (6) semester credit hours of laboratory science with a minimum 2.0 (C) grade in each course.
3. Required non-science courses must be taken from the following: English 10400, English 10500, (or its equivalent); Psychology 12000. Required science courses must be taken from the following: Chemistry 11900; Biology 21300 and 21400; Biology 22100 or equivalencies.
4. All required courses must have a grade of 2.0 (C) or better.
5. A grade of less than 2.0 in any three (3) prerequisite courses required in the Undergraduate Nursing Curriculum Plan of Study will result in ineligibility for admission.
6. Repeated core science courses, for the purpose of admission, will be factored together to produce a cumulative GPA.
7. Students are allowed only one withdrawal from the same science course. This withdrawal policy does not include courses dropped during the refund period.
8. Laboratory science courses for non-RN students need to have been completed within five (5) years of an application to the School of Nursing. Special consideration may be given to applicants with a four year degree in science or a medically related field.
9. Nursing students transferring from another nursing program must submit a letter of good standing from the Dean or designee of their previous nursing program.
10. Applicants who have been admitted to the School of Nursing will be required to submit a record of a comprehensive physical examination completed within the last 6 months, a complete immunization record and/or lab titres, PPD within 3 months of entry or chest x-ray, and Cardiopulmonary Resuscitation Certification prior to registration. A criminal background check and malpractice insurance purchased through the university is required upon enrollment in the first clinical nursing course. In addition, students must meet agency requirements as they are mandated.

NOTE: Simply meeting the above requirements does not guarantee admission to the Nursing Program. All applicants to Nursing are reviewed and the best qualified are admitted. Enrollment is limited.

## Professional Option Plan of Study

(123 CREDITS)

Semester 1			LEC	LAB	CR
NUR 18100	Introduction to Professional Nursing		1	0	1
NUR 19600	Foundations of Psychosocial Nursing (1st 8 weeks)		3	0	3
BIOL 21300	Human Anatomy & Physiology I		3	3	4
CHM 11900	General Chemistry		2	3	3
PSY 12000	Elementary Psychology		3	0	3
NUR 18200	Conceptual and Theoretical Thinking in Nursing		2	0	2
Semester 2			LEC	LAB	CR
NUR 19200	Foundations of Nursing (1st 8 weeks)		2	0	2
NUR 18800	Foundations of Health Assessment and Health Promotion		2	3	3
NUR 19700	Practicum I (2nd 8 weeks)		0	6	2
NUR 27400	Essential Pharmacokinetics for Nursing (1st 8 weeks)		2	0	2
BIOL 21400	Human Anatomy and Physiology II		3	3	4
ENGL 10400	English Composition I		3	0	3
Semester 3			LEC	LAB	CR
NUR 28600	Mental Health Nursing (1st 8 weeks)		3	0	3
NUR 28700	Mental Health Nursing Practicum (2nd 8 weeks)		0	3	1
NUR 29400	Essential Pharmacotherapeutics for Nursing		3	0	3

NUR 45100	Nursing Informatics	2	2	3
ENG 10500	English Composition II	3	0	3
NUR 38400	Concepts of Role Dev. in Professional Nursing	3	0	3

Semester 4			LEC	LAB	CR
NUR 28200	Adult Nursing I		4	0	4
NUR 28300	Practicum II		0	6	2
NUR 27500	Alternative Therapies for Nursing Practice		2	0	2
ELECTIVE	Communication		3	0	3
BIOL 22100	Intro to Microbiology		3	3	4

Semester 5			LEC	LAB	CR
NUR 31700	Nursing Care of Women through the Lifespan (1st 8 wks.)		3	0	3
NUR 31800	Maternity Practicum (2nd 8 wks)		0	3	1
BHS 20100	Statistical Methods for the Behavioral Sciences		3	0	3
NUR 39400	Health Promotion and Education		3	0	3
NUR 39700	Nursing Care of the Aged, Disabled & Chronically III		3	0	3
NUR 39100	Professional Ethics		2	0	2

Semester 6			LEC	LAB	CR
NUR 36100	Pediatric Nursing (1st 8 wks.)		2	0	2
NUR 37200	Pediatric Nursing Practicum (2nd 8 wks)		0	3	1
NUR 41500	Pathophysiology		3	0	3
NUR 38800	Nursing of Families and Groups		3	0	3
NUR 39000	Nursing Research		3	0	3
F&N 30300	Essentials of Nutrition		3	0	3

Semester 7			LEC	LAB	CR
NUR 39200	Adult Nursing II		3	0	3
NUR 39300	Practicum III		0	9	3
NUR 48200	Nursing Leadership & Management		2	0	2
NUR 39900	Nursing Elective		3	0	3
ELECTIVE	Philosophy		3	0	3
NUR 48800	Capstone Course Preparation		1	0	1

Semester 8 LEC			LAB	CR	
NUR 48500	Community Health Nursing Practicum		1	6	3
NUR 48600	Community Health Nursing		3	0	3
NUR 49800	Capstone Course in Nursing		3	0	3
ELECTIVE	Humanities		3	0	3
ELECTIVE	Elective Open		3	0	3

## Admission Requirements for the ACCELERATED SECOND DEGREE IN NURSING OPTION

Purdue University Calumet School of Nursing offers an accelerated program for non-nurses who possess a minimum of a baccalaureate degree in another discipline. This intense and innovative program is designed specifically for full time, academically talented students, who are mature critical thinkers and motivated to earn a BS degree in nursing in a shortened time frame. Students who have a bachelor's degree in another major that are not interested in a full time program or do not meet the admission requirements are encouraged to meet with the nursing academic advisor and explore their options in the traditional program.

### Admission Requirements:

The successful applicant will:

1. Have a minimum of a baccalaureate degree in any major from an accredited institution.
2. Have a cumulative grade point average of 3.0 from prior baccalaureate and/or graduate program.
3. Have a minimum grade of "C" or better in all prerequisite courses.
4. Provide an essay outlining personal goals and objectives along with a resume.
5. Complete a face-to-face interview with members of the admissions committee.

### Entrance Requirements:

1. Complete all OSHA requirements prior to enrollment.
2. Complete a criminal background check.
3. Meet with the nursing academic advisor.
4. Attend the nursing orientations.

### Admission Prerequisites:

Human Anatomy and Physiology*	6-8 credit hours (lab recommended)
Microbiology*	4 credit hours (lab recommended)
Computer Information Technology*	3 credit hours
Statistics	3 credit hours
Nutrition	3 credit hours
English Composition	6 credit hours
Behavioral Sciences	6 credit hours
Humanities	3 credit hours

Note: Sciences (Anatomy and Physiology, Microbiology and Computer/Information Technology) may not be older than 5 years.

Note: Simply meeting the above requirements does not guarantee admission to the Nursing Program. All applicants to Nursing are reviewed and the best qualified are admitted. Enrollments are limited.

## ACCELERATED SECOND DEGREE IN NURSING OPTION

### Plan of Study

(121 CREDITS)

Semester 1		LEC	LAB	CR
NUR 18800	Foundations of Health Assessment and Health Promotion	2	3	3
NUR 19200	Foundations of Nursing (1st 8 wks.)	2	0	2
NUR 19600	Foundations of Psychosocial Nursing (1st 8 wks.)	3	0	3
NUR 19700	Practicum 1 (2nd 8 wks.)	0	6	2
NUR 18200	Conceptual and Theoretical Thinking in Nursing	2	0	2
NUR 29400	Essential Pharmacotherapeutics for Nursing	3	0	3
Semester 2		LEC	LAB	CR
NUR 28200	Adult Nursing I	4	0	4
NUR 28300	Practicum II	0	6	2
NUR 28600	Mental Health Nursing (1st 8 wks.)	3	0	3
NUR 41500	Pathophysiology	3	0	3
NUR 39000	Nursing Research	3	0	3
NUR 39100	Professional Ethics	2	0	2
Semester 3		LEC	LAB	CR
NUR 39200	Adult Nursing II	3	0	3
NUR 39300	Practicum III (2nd 8 weeks)	0	9	3
NUR 35200	Gerontological Nursing	1	0	1
NUR 48200	Nursing Leadership and Management	2	0	2
NUR 48800	Capstone Course Preparation	1	0	1
Semester 4		LEC	LAB	CR
NUR 31700	Nursing Care of Women through the Lifespan (1st 8 wks.)	3	0	3
NUR 31800	Maternity Practicum (2nd 8 wks.)	0	3	1
NUR 36100	Pediatric Nursing (1st 8 wks.)	2	0	2
NUR 36200	Pediatric Nursing Practicum (2nd 8 weeks)	0	3	1
NUR 48500	Community Health Nursing Practice	1	6	3
NUR 48600	Community Health Nursing	3	0	3
NUR 49800	Capstone Course in Nursing	3	0	3

All students are required to complete a state board review course prior to receiving the certificate of completion.

Note: Students need to be aware that practicum hours are clinical laboratory hours and are calculated with the formula of 3 contact hours per week, for every practicum hour.

### Breakdown of Credit Hours

- 29-31 cr. Previous Degree
- 34-36 cr. Prerequisite requirements (some of which might come from previous degree)
- 58 cr. Nursing Major
- 121-123 cr. hours

At the completion of this program students will receive a BS degree in Nursing and be eligible to take the National Council Licensing Examination to become a Registered Nurse.

PROGRAM APPROVED BY UNDERGRADUATE CURRICULUM COMMITTEE 4/26/04

## Online RNBS, Nursing Completion Program Degree Requirements

(121 CREDITS)

### Admission Requirements for the Online RNBS, Nursing Completion Option

The Registered Nurse preparing for admission in the RNBS, Nursing Completion Program at Purdue University Calumet must meet the following criteria to be considered for admission:

- Complete Purdue University Calumet Application and submit application fee.
  - Applicant must be officially accepted by the University before his or her application can be considered by admission to the School of Nursing.
- Minimum GPA of 2.5/4.0.
- Successfully completed an associate's degree or diploma program in Nursing.
- Licensure as a Registered Nurse.
- Completion of 62 semester credit hours of lower division courses, distributed as follows:

Science Courses (17 Credits)	Humanities/Social Science Courses (12 Credits)	Elective Courses (3 Credits)	Nursing Courses (30 Credits)
Anatomy & Physiology – 8 credits	English Composition – 3 credits	History, Political Science, Philosophy, Arts, Nursing elective or other course – 3 credits	Earned transfer credit or department credit without examination.
General Chemistry – 3 credits	Introductory Psychology – 3 credits		Graduates of Associate Degree Nursing Programs who do not have the required 30 hours of nursing credit will have their academic records evaluated on an individual basis.
Pharmacology, Math or Science Course – 2 credits	Growth & Development, Sociology, Child Psychology, Nutrition, or other Social Science course – 6 credits		
Microbiology – 4 credits			

# Online RNBS, Nursing Completion Degree Program

## Plan of Study

Core Nursing Courses	Credit Hrs.
NUR 18200 – Conceptual and Theoretical Thinking in Nursing	2
NUR 38400 – Concepts of Development in Professional Nursing	3
NUR 39000 – Nursing Research <i>Prerequisites: Introductory Statistics, English Composition II</i>	3
NUR 38800 – Nursing of Families and Groups	3
NUR 39100 – Professional Ethics*	2
NUR 39400 – Health Promotion and Education	3
NUR 39700 – Nursing Care of the Aged, Disabled & Chronically Ill	3
NUR 41500 – Pathophysiology	3
NUR 45100 – Nursing Informatics	3
NUR 48300 – Community & Public Health Nursing	5
NUR 48200 – Nursing Leadership and Management*	2
NUR 49800 – Capstone Course in Nursing***	3
<b>Total Credit Hours</b>	<b>35</b>

Non-Nursing Required Courses	Credit Hrs.
BHS 20100 – Statistical Methods	3
ENGL 10500 – English Composition II	3
Elective	3
COM – Communication Elective	3
Humanities Elective**	6
Elective	3
Elective	3
<b>Total Credit Hours</b>	<b>24</b>

\* Courses will be taken concurrently.

\*\*Humanities include Literature, History, Philosophy, Foreign Language, Art, Music, Theater

and other courses by advisor approval. \*\*\*All non-nursing courses must be completed with the exception of 6 credit hours upon completion of the capstone

## LPN to BS Option in Nursing

ADMISSION REQUIREMENTS FOR AN ACCELERATED CURRICULUM TRACK FOR THE LPN TO BS OPTION  
PREREQUISITE COURSES FOR ADVANCED PLACEMENT (42 CREDIT HOURS)

The Licensed Practical Nurse preparing to seek admission for advanced placement in the Undergraduate Degree Nursing Program at Purdue University Calumet must:

### Step 1:

- Complete an undergraduate application (available at Enrollment Services Center.)
- Submit copy of official transcript showing all course work from a state accredited Practical Nurse Program (with date of practical nurse program completed) and other collegiate institutions to Admission Office.
- Submit copy of current practical nurse licensure to Admissions Office.

When above is completed, Admissions will forward paperwork to nursing Academic advisor. You are then notified of Admission status.

*The School of Nursing reserves the right to deny readmission to any student who was previously dismissed from PUC's Nursing Program or any other Nursing Program.*

### Step 2:

After you are notified of Admission status (major code LPN)

- Make an appointment with nursing academic advisor to discuss the criteria for advanced placement.
- Provide evidence of successful completion of the following prerequisite support courses (27 credits) with a grade of 2.0 (C) or better and a cumulative grade point average of 2.5/4.0 grading scale:

PREREQUISITE COURSES FOR ADVANCED PLACEMENT (27 Credit Hours)	
Support Courses	
Science (15 Credits)	Humanities/Social Science (12 Credits)
<b>CHEM 119</b> General Chemistry (3 Credits)	<b>PSY 120</b> Introduction to Psychology (3 Credits)
<b>BIOL 213</b> Human Anatomy I (4 Credits)	<b>ENGLISH 104, 105</b> English Composition I and II (6 Credits)
<b>BIOL 214</b> Human Anatomy II (4 Credits)	<b>BHS 201</b> (3 Credits)
<b>BIOL 221</b> (4 Credits)	

- Successful completion of the Foundational HESI Exam with a score of 850 or greater. This satisfies 7 credits of foundational nursing courses.
- Successful completion of the Pharmacology HESI Exam with a score of 850 or better. This exam satisfies 5 credits for the Pharmacology courses. Credit for the pharmacology courses (NUR 294 and NUR 274) can also be established by taking the courses.
- Successful completion of NUR 18800 with a C or better.

FIRST YEAR NURSING COURSES (15 Credit Hours)	
Credit by Exam (12 Credit Hours)	
Foundational HESI Exam (All Courses Below) (7 Credits)	Pharmacology HESI Exam (5 Credits)
<b>NUR 192</b> Foundations of Nursing (2 Credits)	<b>NUR 274</b> Essential Pharmacokinetics for Nursing (2 Credits)
<b>NUR 196</b> Foundations of Psychosocial Nursing (3 Credits)	<b>NUR 294</b> Essential Pharmacotherapeutics for Nursing (3 Credits)
<b>NUR 197</b> Practicum I (2 Credits)	
<b>NOTE: The HESI Exam may be taken only once. Failure to achieve a score of greater than or equal to 850 on the exam will result in ineligibility for advanced placement in the program.</b>	
<b>NUR 188</b> Foundations of Health Assessment and Health Promotion (3 credits) (Students must complete above exam requirements prior to registering for NUR 188)	

- F. Upon completion of the prerequisite courses and CGPA and successful completion of the HESI exams for advanced placement (42 credits total), the student will be admitted on space available basis.
- G. Clinical Requirements: Applicants who have been admitted to the School of Nursing will be required to meet all clinical requirements listed in the undergraduate student handbook at <http://webs.purduecal.edu/nursing/undergraduate/handbook/course-req/clinical-eligibility-documents/>. Malpractice insurance purchased through the University is required upon enrollment in the first clinical nursing course.

## Plan of Study for LPN to BS Option

(81 CREDIT HOURS)

SEMESTER 3		
COURSE	COURSE TITLE	TOTAL CREDIT HOURS
NUR 181	Introduction to Professional Nursing	1 Credit Hr.
NUR 182	Conceptual and Theoretical Thinking in Nursing	2 Credit Hrs.
F&N 303	Essentials of Nutrition	3 Credit Hrs.
NUR 275	Alternative Therapies for Nursing Practice	2 Credit Hrs.
COM	Elective	3 Credit Hrs.
NUR 384	Concepts of Role Development in Professional Nursing	3 Credit Hrs.
<b>Semester Total: 14 Credits</b>		

SEMESTER 4		
COURSE	COURSE TITLE	TOTAL CREDIT HOURS
NUR 282	Adult Nursing I	4 Credit Hrs.
NUR 283	Practicum II	2 Credit Hrs.
NUR 286	Mental Health Nursing Practicum	3 Credit Hrs.
NUR 287	Mental Health Nursing Practicum	1 Credit Hr.
NUR 451	Nursing Informatics	3 Credit Hrs.
<b>Semester Total: 13 Credits</b>		

SEMESTER 5		
COURSE	COURSE TITLE	TOTAL CREDIT HOURS
NUR 317	Nursing Care of Women through the Lifespan (1st 8 weeks)	3 Credit Hrs.
NUR 318	Pediatric Nursing Practicum (2nd 8 weeks)	1 Credit Hr.
NUR 394	Health Promotion and Education	3 Credit Hrs.
NUR 397	Nursing Care of the Aged, Disabled and Chronically Ill	3 Credit Hrs.
NUR 391	Professional Ethics	2 Credit Hrs.
<b>Semester Total: 12 Credits</b>		

SEMESTER 6		
COURSE	COURSE TITLE	TOTAL CREDIT HOURS
NUR 361	Pediatric Nursing (1st 8 weeks)	2 Credit Hrs.
NUR 372	Pediatric Nursing Practicum (2nd 8 weeks)	1 Credit Hr.
NUR 415	Pathophysiology	3 Credit Hrs.
NUR 388	Nursing of Families and Groups	3 Credit Hrs.
NUR 390	Nursing Research	3 Credit Hrs.
<b>Semester Total: 12 Credits</b>		

SEMESTER 7		
COURSE	COURSE TITLE	TOTAL CREDIT HOURS
NUR 392	Community Health Nursing II	3 Credit Hrs.
NUR 393	Practicum III	3 Credit Hrs.
NUR 482	Nursing Leadership & Management	2 Credit Hrs.
NUR 399	Nursing Elective	3 Credit Hrs.
PHIL	Elective	3 Credit Hrs.
NUR 488	Capstone Course Preparation	1 Credit Hr.
<b>Semester Total: 15 Credits</b>		

SEMESTER 8		
COURSE	COURSE TITLE	TOTAL CREDIT HOURS
NUR 485	Community Health Nursing Practicum	3 Credit Hrs.
NUR 486	Community Health Nursing	3 Credit Hrs.
NUR 498	Capstone Course in Nursing	3 Credit Hrs.
ELECTIVE	Humanities	3 Credit Hrs.
ELECTIVE	Open	3 Credit Hrs.
<b>Semester Total: 15 Credits</b>		

# Master of Science, Nursing

Students select among the Clinical Nurse Specialist (45 credits) Family Nurse Practitioner (45 credits), or Nursing Executive (43 credits) options. Full-time study requires six semesters including summer; part-time study options are available.

## Admission Requirements

1. Graduation from an accredited baccalaureate program in nursing.
2. Evidence of current registered nurse licensure.
3. Minimum undergraduate cumulative GPA of 3.0/4.0
4. Basic physical assessment course.
5. Introductory statistics course (within five years prior to admission).
6. Criminal background check clearance (Information about testing to be obtained through School of Nursing.)

An applicant who does not meet one or more of the admission requirements may be considered for conditional admission status. In addition to the preceding requirements for admission, the School of Nursing adheres to Purdue University Graduate School Admission policies regarding English as a foreign language.

## Special Graduation Requirements

Final graduation grade point average of a "B" or better on the approved Plan of Study. Minimum grade of "B" in all core and specialty required nursing courses. The program must be completed within 6 years following admission.

### 1. Advanced Practice in Nursing Core Courses

(Applies to all Masters-level study options)

NUR 50000	Theoretical Constructs in Nursing
NUR 50100	Foundations of Advanced Practice in Nursing
NUR 50500	Sociocultural Influences on Health
NUR 51000	Nursing Research
NUR 51100	Health Promotion for Advanced Practice in Nursing
NUR 52700	Ethics for Nurses in Advanced Practice
NUR 65500	Advanced Practice in Nursing Seminar
NUR 65600	Healthcare Organization, Policy and Economics

### 2. Additional Clinical Nurse Specialist and Family Nurse Practitioner Core Courses

NUR 50200	Pharmacotherapeutics for Advanced Practice Nursing
NUR 50300	Advanced Health Assessment
NUR 50700	Physiologic Concepts for Advanced Practice Nursing

### 3. Specialty Courses

#### Clinical Nurse Specialist Option

Choose A or B

#### A. Critical Care Clinical Nurse Specialist

NUR 60200	Critical Care Clinical Nurse Specialist I
NUR 60300	Critical Care Clinical Nurse Specialist Practicum I
NUR 63000	Critical Care Clinical Nurse Specialist II
NUR 63500	Critical Care Clinical Nurse Specialist Practicum II
NUR 65900	Critical Care Clinical Nurse Specialist Practicum III: Clinical Synthesis

#### B. Adult Health Clinical Nurse Specialist

NUR 60000	Adult Health Clinical Nurse Specialist I
NUR 60100	Adult Health Clinical Nurse Specialist Practicum I
NUR 61800	Adult Health Clinical Nurse Specialist II
NUR 62000	Adult Health Clinical Nurse Specialist Practicum II
NUR 65800	Adult Health Clinical Nurse Specialist Practicum III: Clinical Synthesis

#### Family Nurse Practitioner Option

NUR 61100	Primary Care of the Young Family
NUR 61300	Primary Care of the Young Family Practicum
NUR 62200	Primary Care of the Aging Family
NUR 62300	Primary Care of the Aging Family Practicum
NUR 65700	FNP Practicum: Clinical Synthesis

## Nurse Executive Option

NUR 52500	Informatics
NUR 65000	Concepts for the Nurse Executive Creating an Environment for Professional Practice
NUR 65100	Role of the Nursing Executive for Professional Practice
NUR 65300	Nursing Administration, Financial Management
SPEA V561 <b>OR</b> OBHR 63300	Public Human Resources Management
NUR 67100	Nurse Executive, Practicum I
NUR 67200	Nurse Executive, Practicum II

### 4. Electives (required in the Clinical Nurse Specialist and Nurse Executive Options)

Two to three credits from Nursing or other fields of study

# Adult Health or Critical Care Clinical Nurse Specialist Post-Master's Certificate Programs

## Purpose:

The purpose of the Adult Health or Critical Care Clinical Nurse Specialist Certificate Programs at Purdue University Calumet will be to provide Clinical Nurse Specialist (CNS) preparation to qualified Master's prepared nurses. CNSs are advanced practice nurses who are uniquely prepared to meet complex patients' needs for expert nursing care. In addition, CNSs advance the practice of nursing through their positive influence on nurses, nursing practice and healthcare systems. The target audience for this program includes master's prepared nurses that are interested in becoming clinical nurse specialists.

## Admission Requirements

The admission process for the Adult Health or Critical Care Clinical Nurse Specialist Post-Master's Certificate Programs adheres to Graduate School Admission policies regarding English as a foreign language and parallels that for students seeking a Master's Degree in Nursing. Specific requirements are:

1. Master's degree in nursing from an accredited institution or admission and enrollment in a master's degree program in nursing.
2. Minimum graduate GPA of 3.0/4.0 with the possibility of conditional admission for applicants who do not meet this requirement.
3. Evidence of current registered nurse licensure.
4. A minimum of one year or 1500 hours of experience as a registered nurse.
5. Criminal background check clearance (Information about testing to be obtained through School of Nursing).

## Completion Requirements

The certificate requires students to complete a minimum of 12 credit hours and a maximum of 25 credit hours consisting of the following courses.

### Adult Health and Critical Care

NUR 50200	Pharmacotherapeutics for Advanced Practice Nursing* (3 credits)
NUR 50300	Advanced Health Assessment* – 3 credits
NUR 50700	Physiologic Concepts for Advanced Practice Nursing* (4 credits)
NUR 51100	Health Promotion for Advanced Practice in Nursing* (3 credits)

### Adult Health

NUR 60000	Adult Health CNS I (3 credits)
NUR 60100	Adult Health CNS Practicum I (2 credits)
NUR 61800	Adult Health CNS II (3 credits)
NUR 62000	Adult Health CNS Practicum II (2 credits)
NUR 65800	Adult Health CNS Practicum III: Clinical Synthesis (2 credits)

### Critical Care

NUR 60200	Critical Care CNS I (3 credits)
NUR 60300	Critical Care CNS Practicum I (2 credits)
NUR 63000	Critical Care CNS II (3 credits)
NUR 63500	Critical Care CNS Practicum II (2 credits)
NUR 65900	Critical Care CNS Practicum III: Clinical Synthesis (2 credits)

\*May be waived if student has taken a comparable course at Purdue University Calumet or another accredited nursing program within 5 years prior to application to this program.

## Family Nurse Practitioner Post-Master's Certificate Program

### Purpose:

The purpose of the Family Nurse Practitioner Certificate Program at Purdue University Calumet is to increase the numbers of family nurse practitioners prepared to provide primary care. Primary care is currently undergoing a period of expansion in order to meet the increasing healthcare needs of our nation's citizens. The post-master's certificate program at Purdue University Calumet exists to address the need for increased numbers of primary care providers. The target audience for this program includes master's prepared nurses that are interested in becoming family nurse practitioners.

### Admission Requirements

*The admission process for the Family Nurse Practitioner Certificate Program adheres to Graduate School Admission policies regarding English as a foreign language and parallels that for students seeking a Master's Degree in Nursing. Specific requirements are:*

1. Master's degree in nursing from an accredited institution or admission and enrollment in a masters degree program in nursing.
2. Minimum graduate GPA of 3.0/4.0 with the possibility of conditional admission for applicants who do not meet this requirement.
3. Evidence of current registered nurse licensure.
4. A minimum of one year or 1500 hours of experience as a registered nurse.
5. Criminal background check clearance (Information about testing to be obtained through School of Nursing.)

### Completion Requirements

*Credit Hour Requirements:*

*The certificate requires students to complete a minimum of 14 and a maximum of 27 credit hours consisting of the following courses.*

NUR 50200	Pharmacotherapeutics for Advanced Practice Nursing* (3 credits)
NUR 50300	Advanced Health Assessment* (3 credits)
NUR 50700	Physiologic Concepts for Advanced Practice Nursing* (4 credits)
NUR 51100	Health Promotion for Advanced Practice in Nursing* (3 credits)
NUR 61100	Primary Care of the Young Family (3 credits)
NUR 61300	Primary Care of the Young Family Practicum (3 credits)
NUR 62200	Primary Care of the Aging Family (3 credits)
NUR 62300	Primary Care of the Aging Family Practicum (3 credits)
NUR 65700	FNP Practicum: Clinical Synthesis (2 credits)

*\*May be waived if student has taken a comparable course at Purdue University Calumet or another accredited nursing program within 5 years prior to application to this program.*

## Post-Master's Certificate in Nursing Education

### Purpose

The purpose of the Post-Master's Certificate in Nursing Education Program at Purdue University Calumet is to increase the numbers of nurse educators and improve the quality of nursing education. This purpose is accomplished by: providing knowledge and experience in curriculum development; teaching methods to enable qualified master's prepared nurses to assume the role of beginning faculty; and providing faculty who wish to acquire formal academic preparation in teaching the means to do so. The target audience for this program consists of master's students and master's prepared advanced practice nurses, as well as faculty interested in continuing their formal education in teaching.

### Admission Requirements

*The admission process for the Post-Master's Certificate in Nursing Education adheres to Graduate School Admission policies regarding English as a foreign language and parallels that for students seeking a Master's Degree in Nursing. Specific requirements are:*

1. Master's degree in nursing from an accredited institution or admission and enrollment in a masters degree program in nursing.
2. Minimum graduate GPA of 3.0/4.0 with the possibility of conditional admission for applicants who do not meet this requirement.
3. Evidence of current registered nurse licensure.
4. Criminal background check clearance (Information about testing to be obtained through School of Nursing.)

### Credit Hour Requirements:

*The certificate requires students to complete 10 credit hours consisting of the following existing courses:*

EDCI 57200	Introduction to Learning Systems Design (3 credits)
NUR 66000	Curriculum Development in Nursing (3 credits)
NUR 66200	Teaching Strategies for Nursing (4 credits)

*School of*  
TECHNOLOGY

# School of TECHNOLOGY

Niaz Latif, PhD, Dean  
[www.purduecal.edu/technology](http://www.purduecal.edu/technology)

Academic programs offered by the School of Technology include state-of-the-art curricula to meet the ever-changing demands of business and industry for highly-trained technical professionals. The School of Technology offers small class sizes, research opportunities, and the opportunity to profit from real-world laboratory experiences.

- **Computer Information Technology and Graphics** (Charles Winer, Head; 219/989-2035, Gyte Bldg., Room 251)
- **Construction Science and Organizational Leadership** (Anthony Gregory, Head; 219/989-2332, Anderson Bldg., Room 212)
- **Engineering Technology** (Essaid Bouktache, Head; 219/989-2471, Potter Bldg., Room 121)

## Bachelor Degree Programs

- Computer Graphics Technology
- Computer Information Technology
- Construction Management & Engineering Technologies
- Electrical Engineering Technology
- Industrial Engineering Technology
- Mechanical Engineering Technology
- Mechatronics Engineering Technology
- Organizational Leadership and Supervision

## Master's Degree Program

- Technology

## Career Opportunities

Those who graduate from Purdue University Calumet's School of Technology are prepared for such career opportunities as a Process Engineer, Plant Manager, Safety Specialist, Database Administrator, Quality Assurance Manager, Product Design Engineer, Process Control Instrumentation Technologist, Human Resource Specialist, Computer Network Technologist, Corporate Trainer, Biomedical Instrumentation Technologist, Construction Scheduler, Multimedia Specialist, Survey Crew Chief, Estimator, CAD Operator/Manager, Graphic Artist, Animator, Virtual Reality Developer, Web Designer/Developer, Lead Software Developer, Software Application Architect, Network Security Technician, Expediter, Manufacturing Supervisor, Materials Technician, System Administrator, Information Technology Consultant, Software Engineer, Programmer, Application Developer, System Analyst and more.

# Department of Computer Information Technology and Graphics

**Charles Winer, Professor and Department Head.** *Faculty:* M. Chandramouli; K. Jiang; G. Jin; T. Kim; B. Nicolai; K. Nankivell; M. Roller; J. Whittington  
*Emeritus Faculty:* S. Rados

*Academic Advisor:* Debra Armand, Computer Information Technology and Computer Graphics Technology

*Staff:* J. Curry, Department Secretary; D. Alt, CITG Technology Specialist

The Department of Computer Information Technology and Graphics (CIT&G), offers Bachelor of Science (B.S.) Degree programs in computer information technology and computer graphics technology. The programs blend the theoretical with the practical and emphasize business applications.

The mission of the Computer Information Technology and Graphics Department at Purdue University Calumet is to provide superior academic programs to our students, acclaimed service to the Calumet Region, and excellence in scholarship to the information technology community. Through classroom and lab interaction with experienced faculty and the ability of students to perform applied research and experiential learning, our graduates are able to begin their professional work activities with the confidence and knowledge to be successful in their chosen field of work. Our computer lab facilities and industry standard software enable students to be on the leading edge of what they will encounter in the real world of information technology and graphics.

For further information, please call the Computer Information Technology and Graphics office at (219) 989-2035. The department homepage can be accessed at: <http://webs.purduecal.edu/citg/>

## Computer Information Technology and Graphics Bachelor of Science degrees:

- Bachelor of Science, Computer Information Technology
- Bachelor of Science, Computer Graphics Technology

*Notes: ITS (Information Technology Systems) is the CIT program's subject code designator CGT (Computer Graphics Technology) is the CGT program's subject code designator*

### Computer Information Technology (CIT)

The following are the Program Educational Objectives (PEO's) for the Baccalaureate Degree in Computer Information Technology (CIT):

#### Program Educational Objective 1:

The program will produce graduates that are information technologists with applied research, critical thinking and problem solving skills.

#### Program Educational Objective 2:

The program will produce graduates that are professionals, leading industry direction with excellence in providing solutions to business needs.

#### Program Educational Objective 3:

The program will produce graduates that are future information technology leaders.

#### Program Educational Objective 4:

The program will produce graduates that are life-long learners who have a commitment to service within the community.

#### Program Educational Objective 5:

The program will produce graduates that are citizens of the world, sensitive to state, national and global initiatives through technological solutions.

This program is based on curriculum standards of the Association for Computing Machinery/Special Interest Group Information Technology Education (ACM/SIGITE) core curriculum that meets the requirements of Purdue University Calumet instructional guidelines. The curriculum has the student experience each individual topic in their first two years. The SIGITE core is made up of general education courses and specific Information Technology requirements of the accreditation guidelines. The core courses span knowledge areas that include computational thinking / problem solving, algorithm development, database implementation, project management, human computer interaction, information assurance and security, networking technologies, platform technologies, and operating systems implementation. Through classroom and lab interaction with experienced faculty and the ability to perform applied research and experiential learning, Computer Information Technology graduates are able to begin their professional work activities with the confidence and knowledge to be successful in their chosen field of work.

The department supports four state-of-the-art and cutting-edge technology virtual classrooms/labs in Powers building allowing students to access our courses and labs from anywhere and at anytime. Digitally recorded modules may be archived and available as Podcasts or viewed as live or recorded Webcasts so students can work on a self-paced basis.

# Bachelor of Science, Computer Information Technology

(121-122 CREDIT HOURS)

## 1. English and Communications

ENGL 10400	English Composition
ENGL 22000	Technical Report Writing
COM 11400	Fundamentals of Speech Communications

## 2. Mathematics and Science

MA 14700	Algebra and Trigonometry for Technology
MA 20500	Discrete Mathematics for IT
STAT 30100	Elementary Statistical Methods

## 3. Natural Science — defined as one of the following: Science 11200, Astronomy, Geology, Biology, Physics or Chemistry.

## 4. Humanities and Social Science

**Humanities** — defined as one of the following: American History, English Literature, Modern Language, Philosophy, World History, World Literature, or Aesthetics (Fine Arts, Music, and Theater).

**Social Sciences** — defined as one of the following: Anthropology, Communication, Economics, Political Science, Psychology or Sociology

## 5. Open Elective — (Consisting of 3 credit hours)

## 6. Computer Information Technology

ITS 10000	Information Technology Fundamentals
ITS 11000	Web Systems Technologies
ITS 12000	Introduction to Human-Computer Interaction
ITS 13500	Operating Systems Technologies
ITS 14000	Introduction to Computer Algorithms and Logic
ITS 17000	Networking Technologies
ITS 20000	Ethical and Legal Issues in IT
ITS 24000	IT Programming Fundamentals
ITS 24500	Integrative Programming
ITS 25000	Fundamentals of Information Assurance
ITS 26000	Applied Database Technologies
ITS 27000	Internetworking Technologies
ITS 33000	Advanced Operating Systems
ITS 34000	Advanced Programming
ITS 35000	Systems Assurance
ITS 35200	Disaster Recovery and Planning
ITS 36000	Distributed Application Architecture and Design
ITS 36200	Distributed Application Development
ITS 36400	Database Modeling and Implementation
ITS 37000	Data Communications and Networking
ITS 37200	System Administration and Management
ITS 45000	Software Assurance
ITS 45200	Computer Forensics
ITS 45400	Assured Systems Design and Implementation
ITS 46200	Application Integration
ITS 47000	Large Scale High Performance Systems
ITS 47200	Network Design and Implementation
ITS 48000	IT Project Development and Management
ITS 49000	Senior Project/Undergraduate Research

## Program Notes:

1. The program requirements are determined by the date a student officially becomes a CIT major.
2. A student who is not qualified to take at least ENGL 10400 and MA 14700 courses is considered deficient and cannot take any ITS courses until the deficiency is removed.
3. A grade of a "C" or better is required in each ITS major course. ITS courses in which lower grades have been received must be retaken before progressing to the next course in the sequence. An incomplete is not considered a passing grade.
4. Only two ITS courses may be repeated because of an unsatisfactory (D or F) grade. These courses may only be repeated one time.
5. No student shall choose the pass/not pass option for an ITS course. Advisor agreement is required for any other course.
6. Students must meet the University requirements for freshman experience, general education, and experiential learning prior to graduation. Students will utilize general education selective with advisor consent in the category listed.
7. It is expected that students taking 20000, 30000, 40000 level courses have taken all of the previous levels courses regardless of prerequisites.

## Computer Graphics Technology (CGT)

The following are the Program Educational Objectives (PEO's) for the Baccalaureate Degree in Computer Graphics Technology (CGT):

### Program Educational Objective 1:

The program will produce graduates that are primed for successful careers in the disciplines associated with or related to computer graphics technology.

### Program Educational Objective 2:

The program will produce graduates that will understand the overall human context in which computer graphics technology activities take place.

### Program Educational Objective 3:

The program will produce graduates that will develop conceptual principles, processes, and techniques essential to all areas of computer graphics and digital media production.

### Program Educational Objective 4:

The program will produce graduates that will work and interact, through hands-on experiences, to design, develop, produce, and edit electronically generated imagery using a wide range of sophisticated graphical tools and techniques.

### Program Educational Objective 5:

The program will produce graduates that are capable of working within a team framework to accomplish a common computer graphics goal and communicate with a range of audiences.

### Program Educational Objective 6:

The program will produce graduates that are life-long learners who engage within communities for which Computer Graphics can serve.

### Program Educational Objective 7:

The program will produce graduates that are computer graphics technologists with applied research, critical thinking, and problem solving skills in the evolving field of computer graphics.

The Computer Graphics Technology program is designed to prepare students for employment as graphics technicians. Students work in computer labs developing their graphics skills, techniques, concepts, and management ability through individual and team-based projects.

Graduates of this program work as graphics practitioners to produce engineering drawings, technical manuals, multimedia products, technical illustrations, and web pages.

The courses in the curriculum develop skills and knowledge critical to all areas of computer graphics specialization. They embrace the teaching of ten (10) core behaviors including

- Visualizing
- Sketching
- Geometric Modeling
- Problem Solving
- Animating
- Applying Technology
- Graphic Designing
- Computer Programming
- Illustrating
- Appreciating Profession

## Bachelor of Science, Computer Graphics Technology

(121-123 CREDIT HOURS)

### 1. English and Communications

ENGL 10400	English Composition I
ENGL 22000	Technical Report Writing
COM 11400	Fundamentals of Public Speaking
OLS 47400	Conference Leadership

### 2. Mathematics and Science

PHYS 22000	General Physics I
Elective	See * below if transferring to West Lafayette CGT
MA 14700	Algebra & Trigonometry for Technology I
MA 14800	Algebra & Trigonometry for Technology II
Elective	See ** below if transferring to West Lafayette CGT

\*/\*\* If transferring to West Lafayette CGT BS degree program, you will need to include MA 22100, PHYS 22100 and a 4 credit Lab Science.

\*\*\*Programming course C++ and/or JAVA. Electives: any course offered by Purdue University Calumet approved by the CGT advisor except general studies or any classes taken to remove high school deficiencies. e.g., beginning and intermediate algebra and English

### 3. General Education

ECON 21000	Principles of Economics
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### 4. Humanities Elective

Any course in literature, history, philosophy, foreign language, art, music, theater, or appropriate interdisciplinary humanities courses.

### 5. Social Science Elective:

Any course in anthropology, psychology, sociology, political science, economics, or appropriate interdisciplinary social sciences courses.

### 6. Computer Graphics Technology

CGT 10100	Introduction to Computer Graphics Technology
CGT 11100	Design for Visualization and Communication
CGT 11200	Sketching for Visualization and Communication
CGT 11600	Geometric Modeling for Visualization and Communication
CGT 14100	Internet Foundations, Technologies, and Development
CGT 21100	Raster Imaging for Computer Graphics
CGT 21500	Computer Graphics Programming I
CGT 21600	Vector Imaging for Computer Graphics
CGT 24100	Introduction to Animation and Spatial Graphics
CGT 25600	Human Computer Interface Theory and Design
CGT 30700	Advanced Graphic Design for Web and Multimedia
CGT 30800	Pre Press Production
CGT 30900	Internship In Computer Graphics Technology
CGT 31000	Drawing, Acting and Scripts for Animation
CGT 33000	Multimedia Animation and Video Game Design and Development
CGT 34000	Digital Lighting & Rendering
CGT 34100	Motion for Computer Animation
CGT 34600	Digital Video and Audio
CGT 35100	Interactive Multimedia Design
CGT 35300	Principles of Interactive & Dynamic Media
CGT 35600	Web Programming, Development & Data Integration

CGT 41100	Contemporary Problems in Applied Computer Graphics
CGT 41600	Senior Design Project
CGT 44200	Production for Computer Animation
CGT 44600	Post-Production & Special Effects for Computer Animation
CGT 45000	Professional Practices
CGT 45100	Multimedia Application Development
CGT 45600	Advanced Web Programming, Development & Data Integration
CGT	Selective 2 or Internship

### 7. Programming Courses (2 courses)

CGT 21500	Computer Graphics Programming I
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### SELECT ONE OF THE FOLLOWING AND/OR

ITS 24000	IT Programming Fundamentals
ITS 24500	Integrative Programming
	Computer Based Systems, Computer Hardware or programming fundamentals. Visual Programming or Approved, JAVA or C++ course; Approved Programming course or approved technical elective

### 8. Technical Elective

Two Technical Electives (6 credit hours) with advisor approval.

*Technical Elective - any course in CGT, School of Technology, A&D, CGT related And approved by the CGT advisor.*

### 9. Management/Supervision

OLS 25200	Human Relations in Organizations
MGMT 32400	Marketing Management
	<b>OR</b>
OLS 37500	Training Methods
MGMT 42100	Promotion Management
OLS 47700	Conflict Management
	<b>OR</b>
OLS 35100	Entrepreneurship Organizational Leadership
OLS 35000	Applied Creativity for Business and Industry

# Department of Construction Science and Organizational Leadership

A.M. Gregory, Head.

Faculty: J.A. Colwell; R.E. Evans; C.F. Jenks; J.R. Johnson; D.P. Korchek; J.H. Lee; S. Nakayama; R. Ocon; J.A. Pena

Emeritus Faculty: E.A. Dudek; W.F. Glowicki; B.M. Meeker; N.G. Scarlatis

Academic Advisor: Tyanna McCann - Construction Management and Engineering Technologies and Organizational Leadership and Supervision

Staff: Sheree Kayden - Department Secretary

The Construction Science and Organizational Leadership department offers Bachelor of Science (B.S.) degrees in Construction Management and Engineering Technologies (CMET), and in Organizational Leadership and Supervision (OLS). The CMET Bachelor of Science degree is accredited by the Technical Accreditation Commission of ABET, <http://www.abet.org>. Also included in the CMET program is an option in Surveying Technology that has received endorsements by both the State of Indiana Board of Registration for Land Surveyors, and the Land Surveying Licensing Board of the Illinois Department of Professional Regulation.

The Organizational Leadership and Supervision Bachelor of Science degree offers areas of specialization in Leadership Development, Safety (Safety, Health, and Environmental Management), and in Supervision. The primary objective of the OLS degree program is to develop the philosophy, skills, and techniques required of successful, first-line leadership in business, education, government, industry, and service organizations.

The faculty of the Construction Science and Organizational Leadership department have a wealth of real world experience and are leaders in their respective disciplines. As a result, the department curricula are kept current through continuous improvement.

For further information, please call the Construction Science & Organizational Leadership office at (219) 989-2332. The department homepage can be accessed at: <http://webs.purduecal.edu/csol/>

## Construction Science & Organizational Leadership Bachelor of Science degrees:

- Bachelor of Science, Construction Management & Engineering Technologies\*
- Bachelor of Science, Organizational Leadership and Supervision

\*Accredited by the Technology Accreditation Accreditation Commission of ABET, <http://www.abet.org>

### Bachelor of Science, Construction Management and Engineering Technologies

The following are the Program Educational Objectives (PEO's) for the Baccalaureate Degree in Construction Management and Engineering Technologies (CMET):

#### Program Educational Objective 1:

The program will produce graduates that are prepared for successful careers in the industry specifically in the areas of construction methods, inspection, safety supervision, scheduling and management, with additional emphasis on business and communication.

#### Program Educational Objective 2:

The program will produce graduates that will advance in their careers and continue their professional development.

#### Program Educational Objective 3:

The program will produce graduates that will understand the overall human context in which engineering technology activities take place.

#### Program Educational Objective 4:

The program will produce graduates that will have strong communication skills, and the ability to work successfully in teams.

#### Program Educational Objective 5:

The program will produce graduates that are prepared in the areas of visual communication, building materials and material testing, surveying, structural analysis, hydraulics and drainage, computer application skills, properties and behavior of soils, professional ethics, construction law, construction safety and the understanding and interpretation of contract documents.

#### Program Educational Objective 6:

The program will produce graduates that are prepared to develop successfully in management positions, direction of personnel, as well as managing construction projects.

This major industry includes a variety of large general construction firms, small specialized contractors, materials suppliers, equipment manufacturers, and the design services of architects and engineers. The wide choice of career opportunities includes estimator, field superintendent, construction scheduler, expeditor, project manager, survey crew chief, materials technician, architectural/civil draftsman, and cost engineer.

Each year architectural, construction, consulting engineering, industrial, laboratory testing, materials supplier, and surveying firms contact Purdue Calumet seeking baccalaureate degree graduates for work in the Calumet Region and in other parts of the country. This trend should continue since there are statistics that the present enrollment of technicians and technologists will not meet the needs of this country for many years.

### Bachelor of Science, Construction Management & Engineering Technologies

(130 CREDITS MINIMUM)

The objective of the Bachelor of Science degree program in Construction Management & Engineering Technologies (CMET) is to provide a broad background in the areas of construction project management, construction engineering, construction methods, inspection, supervision, scheduling and management with additional emphasis on business and communication. The intent of the bachelor of science program is to prepare students to take advantage of opportunities in management positions in which direction of personnel, as well as construction projects, is required.

Note: A grade of C or better in all courses having the "ARET, CET and CMET" designator is required to obtain the CMET B.S. degree, certificates, options or minors.

This program does not lead to professional registration in architecture or engineering.

#### 1. Communication

ENGL 10400	English Comp. I
ENGL 22000	Technical Report Writing
ENGL 42000	Business Writing
COM 11400	Fundamentals of Speech
COM 31500	Comm. of Technical Information

## 2. Science and Mathematics

### Science

PHYS 22000	General Physics
PHYS 22100	General Physics

*One Science elective: any lab science approved by CMET department*

### Math

MA 14700	Algebra and Trig. for Technology I
MA 14800	Algebra and Trig. for Technology II
MA 21900	Calculus for Tech I
STAT 30100	Elementary Statistical Methods I

## 3. General Education

*One general education elective from: Psychology, Philosophy, Sociology, Political Science, History, Foreign Languages, Anthropology, Art History, or English Literature.*

## 4. Major Requirements

ARET 11700	Construction Drafting
ARET17000	Materials and Systems of Construction
ARET 27600	Specifications and Contract Documents
CET10400	Elementary Surveying
CET 16000	Statics
CET 25300	Hydraulics & Drainage
CET 26000	Strength of Materials
CET 26600	Materials Testing
CET 28000	Structural Calculations
CET 30600	Construction Surveying
CET 33100	Property and Behavior of Soils
CMET 10300	Introduction to Construction Management
CMET 28000	Structural Computations
CMET 32500	Structural Applications
CMET 34100	Construction Operations
CMET 34400	Construction Inspection (ExL)
CMET 44200	Construction Costs and Bidding
CMET 44500	Construction Management
CMET 45000	Construction Scheduling
CMET 48900	Senior Project Survey
CMET 49000	Senior Project (ExL)
IET 30800	Project Management and Economics Analysis
OLS 34000	Fund. of Const. Safety

## 5. Selectives

### Architectural Engineering Technology Track

ARET 25000	Architectural Construction I
ARET 22200	Architectural Construction II
ARET 28300	Mech. & Elec. Equipment Bldg.

### Civil Engineering Technology Track

CET 20800	Route Surveying
CET 20900	Land Surv. & Subd.
CET 30900	Principles of Highway Construction

## 6. Construction Electives

*Two construction electives to be selected with academic advisor.*

### Recommended courses are:

CET 20800	Route Surveying
CET 20900	Land Surveying and Subdiv.
CET 25300	Hydraulics and Drainage
ARET 25000	Architectural Construction I (EXL)
ARET 31200	History of Architecture
CET 21000	Surveying Computations
CET 30300	Land Survey Systems
CET 30400	Legal Descriptions
CET 32200	Astronomic and Geodetic Surveying
CET 40200	Surveying Law
CET 40400	Property Surveying.

## 7. Humanities Elective

*One general education elective from: Philosophy, History, Foreign Languages, Anthropology, Art History, English Literature or Music Appreciation*

## 8. Management

ECON 21000	Principles of Economics
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## Bachelor of Science, Construction Management & Engineering Technologies – Surveying Technology Option

(130 CREDITS MINIMUM)

*The Department of Construction Management & Engineering Technologies also offers a Surveying Technology Option. The option includes 10 courses in land surveying (totaling 30 credit hours), 4 courses in mathematics (totaling 13 credit hours), and 3 courses in science (totaling 11 credit hours). This option has been designated as an "Approved Program" by the State of Indiana Board of Registration for Land Surveyors. The option also has been approved by the Land Surveying Licensing Board of the Illinois Department of Professional Regulation as satisfying the statutory requirements of a baccalaureate degree in a related science which includes 24 semester hours of land surveying courses.*

*For further information, please contact the department of Construction Science & Organizational Leadership at (219) 989-2332.*

*Note: A grade of C or better in all courses having the "ARET, CET and CMET" designator is required to obtain the CMET B.S. degree, certificates, options or minors.*

## Bachelor of Science, Organizational Leadership and Supervision

The following are the Program Educational Objectives (PEO's) for the Baccalaureate Degree in Organizational Leadership and Supervision (OLS):

### Program Educational Objective 1:

The program will produce graduates that are prepared for successful careers specifically in the areas of Human Resources, Safety, Supervision, and Leadership, and prepared to lead in their respective professions.

### Program Educational Objective 2:

The program will produce graduates that will have the ability to work and lead successfully in diverse environments and teams.

### Program Educational Objective 3:

The program will produce graduates that will have effective oral and written communication skills.

### Program Educational Objective 4:

The program will produce graduates that will continue their professional development and be prepared to advance in their careers.

### Program Educational Objective 5:

The program will produce graduates that will have the ability to apply the knowledge, skills, and abilities (KSAs), and perspectives necessary to make appropriate professional and ethical decisions with an understanding of global, societal, and contemporary issues.

### Program Educational Objective 6:

The program will produce graduates that are prepared to develop successfully in leadership and management roles in managing of people and projects in business, institutional, and technical settings. The Organizational Leadership and Supervision (OLS) Bachelor of Science degree has as its primary function the key objective of preparing students to perform well in their first work-related professional level position, and to demonstrate their leadership ability within an organizational context.

In support of this orientation, an in-depth academic program has been developed which blends theory about individual and group human behavior with practical skills training. This integration is enhanced by a dedicated and work-experienced faculty, small-size classes, and students who have "real world" exposure from their work experience.

The primary objective of Organizational Leadership and Supervision Bachelor of Science degree, is to develop the philosophy, skills, and techniques required of successful, first-line leadership in business, education, government, industry, and service organizations. OLS offers personalized areas of specialization that are practical, applied, and job-related; and best of all, tailored to the student's interests.

# Bachelor of Science, Organizational Leadership and Supervision

(127-128 CREDITS)

*Note: A grade of C or better in all courses having the "OLS" designator is required to qualify for their use in OLS B.S. degree or OLS certificates*

## 1. Communication

COM 11400	Fund. of Speech Communication
ENGL 10400	English Composition I
ENGL 22000	Technical Report Writing
ENGL 42000	Business Writing

## 2. Science and Mathematics

CIS 20400	Intro. to Computer-Based Systems
MA 14700	Algebra & Trig. for Tech. I

## 3. Humanities and Social Sciences

BHS 20100	Statistical Methods for BHS
ECON 21000	Principles of Economics
PSY 12000	Elementary Psychology
PHIL 32400	Ethics for the Professions

## 4. Major Requirements

MGMT 20000	Introductory Accounting
OLS 10200	Freshman Experience
OLS 13100	Intro. to Envir. Health, Safety, & Risk Mgmt.
OLS 16300	Fundamentals of Self Leadership
OLS 25200	Human Relations in Org.
OLS 37500	Training Methods
OLS 47400	Conference Leadership
OLS 49700	Senior Project (EXL)

## 5. Selectives

### CAREER SPECIALIZATION SELECTIVES

	Leadership Development	Safety	Supervision
Selective 1:	OLS 37400	OLS 33100	OLS 37400
Selective 2:	OLS 27200	OLS 33300	OLS 38400
Selective 3:	OLS 30300	OLS 33600	Career Specialization
Selective 4:	OLS 35000	OLS 33400	OLS 35000
Selective 5:	OLS 37600	OLS 33200	OLS 37600
Selective 6:	Technical Elective	OLS 34300	Career Specialization
Selective 7:	Technical Elective	OLS 34100	Career Specialization
Selective 8:	Technical Elective	OLS 35500	Career Specialization
Selective 9:	Technical Elective	OLS 33700	Career Specialization
Selective 10:	Technical Elective	OLS 34000	OLS Elective
Selective 11:	OLS 37800	OLS 41500	OLS 37800
Selective 12:	OLS 45400	OLS 43000	OLS 48300
Selective 13:	OLS 46800	OLS Elective	OLS 46800
Selective 14:	OLS 47700	OLS 42100	Elective
Selective 15:	OLS 38400	OLS Elective	Elective
Math Selective:	STAT 13000	MA 14800	STAT 13000
Lab Science Selective 1:	Lab Science Elective	PHYS 22000	Lab Science Selective
Lab Science Selective 2:	Lab Science Elective	100-level CHEM Course	Lab Science Selective
IET Selective:	IET 10400	IET 10600	IET 10400

## Electives

**Career Specialization Elective** – a concentration of job-related courses from the same subject area.

**Communication Elective** – COM 31800, COM 32300, COM 32500, COM 42600.

**Elective** – any course offered by Purdue University Calumet approved by the OLS advisor except General Studies or any classes taken to remove high school deficiencies e.g., beginning and intermediate algebra.

**Humanities Elective** – any course In Literature, History, Philosophy, Foreign Language, Art, Music, Theater, or appropriate interdisciplinary humanities courses.

**Laboratory Science Elective** – any science class with a laboratory. e.g., Biology, Physics, Chemistry, Geoscience

**OLS Elective** – OLS 27400, OLS 35100, OLS 36400, OLS 47900, OLS 48200, OLS 48500, OLS 48600, OLS 49100, OLS 57400, OLS 59000.

**Social Science** – any course in Anthropology, Psychology, Sociology, Political Science, Economics, or appropriate interdisciplinary social sciences courses.

**Technical Elective** – any course from a School of Technology program and approved by the OLS advisor.

## Organizational Leadership and Supervision – Minor

(15 CREDIT HOURS)

*A grade of 2.0 (C) or better is required in all OLS courses for successful completion of this minor*

OLS 16300	Fundamentals of Self-Leadership
OLS 25200	Human Relations in Organizations
OLS 37400	Supervision Management
OLS 37600	Human Resource Issues
OLS 38400	Leadership Process

*or any OLS 40000-level course, excluding safety courses*

# Department of Engineering Technology

**E. Bouktache, Department Head.** Faculty: J.P. Agrawal; A. Ahmed; C. Engle; O. Farook; M. Fathizadeh; J. Higley; A. Hossain; L. Mapa; G. Neff; W. C. Robinson; S. Scachitti; C. Sekhar; S. Tickoo; M. Zahraee

*Emeritus Faculty:* M. Kays; G. Kvitek; D. Rose; N. Sorak

*Academic Advisor:* E. Perosky

*Staff:* C. Kerrick, Department Secretary

The Department of Engineering Technology (ET) at Purdue University Calumet offers four separate Bachelor of Science (B.S.) degrees in: 1) Electrical Engineering Technology\*, 2) Industrial Engineering Technology\*, 3) Mechanical Engineering Technology\*, and 4) Mechatronics Engineering Technology.

*\*Accredited by the Technology Accreditation Commission of ABET, <http://www.abet.org>.*

The mission of the department is to provide career educational opportunities to students who have hands-on aptitude and are oriented towards applications. The programs offered by this department are designed to teach students the practical aspects of their disciplines along with the underlying concepts and theories, and inculcate students with an aptitude of applying their knowledge with scientific and objective reasoning.

The department's goal is to produce graduates who are equipped with marketable skills and potential for growth to meet the technical manpower needs of society. The curriculum provides a strong background in technical subjects integrating theory with extensive hands-on laboratory training, mathematics, science, and rounding off with courses in humanities and general education.

The Engineering Technology programs deal with the application of knowledge of mathematics, natural and engineering sciences, and current engineering practices. The Bachelor of Science (B.S.) degree programs within the Engineering Technology Department involve solutions of design problems, implementation, operation, and testing of engineering and manufacturing systems. Engineering Technology emphasizes an integrated approach to teaching by including both theory and practice in most of the courses which have laboratories integrated into these courses.

Our cutting edge laboratory facilities allow our students to acquire these hands-on experiences in modern laboratories which are constantly equipped and updated with instruments and software either through technology fee moneys or donations from industries.

The Department of Engineering Technology owes its strength to its faculty. All faculty are published scholars and experienced engineers who bring this experience to the classroom. The ET faculty publish books, attend conferences on regular basis, are involved in grant writing, research, and are in constant engagement with local industries for donations and rewarding partnerships. Graduate students from the School of Technology Graduate Program are often employed as Research Assistants or Teaching Assistants to assist faculty in their research or teaching assignments.

The ET department measures its success by the demand of its graduates. These graduates are highly sought in industry, with excellent placement rates and competitive starting salaries. The need for technical graduates with a Bachelor of Science (B.S.) degree in either Electrical Engineering Technology, Industrial Engineering Technology, Mechanical Engineering Technology, or Mechatronics Engineering Technology is growing at an accelerated pace, making the Engineering Technology Department a great place to start a successful career.

**Senior Design Project and Experiential Learning:** As a two-semester capstone course, the senior design project is required from all seniors in all four Bachelor of Science (B.S.) degrees, and fulfills the Purdue University Calumet Experiential Learning component required for graduation. The senior design project provides the opportunity for students to work in teams in a multi-disciplinary environment in order to pursue an idea from conception to design and then to execution into a demonstrable project. The project culminates with a showcase that is open to the general public. This capstone course helps students to bridge the gap between theory and practice, and ensures that students transition seamlessly and with confidence into the real industrial world.

For further information, please call the Engineering Technology Department office at (219) 989-2471. The department homepage can be accessed at: <http://webs.purduecalumet.edu/et/>

## Engineering Technology Bachelor of Science degrees:

- Bachelor of Science, Electrical Engineering Technology\*
- Bachelor of Science, Industrial Engineering Technology\*
- Bachelor of Science, Mechatronics Engineering Technology
- Bachelor of Science, Mechanical Engineering Technology\*

*\*Accredited by the Technology Accreditation Commission of ABET, <http://www.abet.org>.*

## Bachelor of Science, Electrical Engineering Technology (EET)

The following are the Program Educational Objectives (PEO's) for the Baccalaureate Degree in Electrical Engineering Technology (EET):

### Program Educational Objective 1:

The program will prepare graduates with the technical skills for successful careers in the design, application, installation, manufacturing, testing, documentation, operation, maintenance, analysis, development, implementation, and oversight of electrical/electronic(s) and computer systems.

### Program Educational Objective 2:

The program will prepare graduates to work as effective team members with commanding oral and written communication skills, as well as to advance in their careers and continue their professional development.

### Program Educational Objective 3:

The program will prepare graduates to exercise ethics in their profession and to recognize the global impacts of their profession on society.

Given the sophistication dictated by the emerging technologies within the vast field of electrical & electronics engineering, the B.S. degree in Electrical Engineering Technology is designed to give graduates a strong background to help them enter the job market and be productive in society. Graduates of the program are readily employable because of their theoretical and practical skills in each technical subject and their extensive hands-on laboratory training.

### Bachelor of Science degree in Electrical Engineering Technology provides knowledge in:

- Circuits and Network Theory
- Switching Theory (Digital Circuits)
- Analog Electronics
- Embedded System Design
- System Diagnostics
- Microprocessor Based Systems
- Hardware/Software Integration
- Computer Hardware Technology
- Computer Networking
- Process Control
- Computer Aided Electronic Fabrication
- Programmable Logic Controllers
- Telecommunications
- Biomedical Instrumentation
- Digital Signal Processing
- Power and Power Electronics
- IP Telephony
- Wireless Networking

### Career Opportunities:

- Computer Hardware/Software Technologists
- Industrial Process Control Instrumentation Technologists
- Power Electronics Technologists
- Telecommunication Technologists
- Computer Networking Specialists
- Electrical Power Technologist
- Biomedical Instrumentation Technologists

## Bachelor of Science, Electrical Engineering Technology\*

(128 CREDITS MINIMUM)

### 1. Electrical Engineering Technology Required Courses

ECET 10000	Introduction to Electrical & Computer Engineering Technology
ECET 10200	Electrical Circuits I
ECET 10900	Digital Fundamentals
ECET 11000	Computer System Architecture
ECET 15200	Electrical Circuits II

ECET 15400	Analog Electronics I
ECET 15900	Digital Applications
ECET 20900	Introduction to Microcontrollers
ECET 21000	Struct C++ Program for Elec Sys
ECET 21200	Electrical Power and Machinery
ECET 21700	Introduction to Process Control
ECET 26500	Computer Networks
ECET 29600	Electronic System Fabrication
ECET 30300	Communications I
ECET 38400	Advanced Mathematical Methods in EET
ECET 39200	Digital Signal Processing
ECET 39700	Project Engineering

### OR

IET 30800	Project Management
ECET 45600	Computer Hardware Design
ECET 49000	Senior Design Project, Phase I
ECET 49100	Senior Design Project, Phase II

### 2. EET Electives

Two to six courses from the following list of EET electives (see Plan of Study in the department office):

ECET 26200	Programmable Logic Controllers
ECET 31000	Biomedical Instrumentation
ECET 31200	Power Electronics
ECET 31500	Digital Design and Implementation using Programmable Logic
ECET 33100	Generation & Transmission of Electrical Power
ECET 36200	Process Control Instrumentation
ECET 36700	Internetworking and TCP/IP
ECET 41000	Physics of Radiologic Imaging
ECET 41200	Power Electronics Design and Applications
ECET 41300	Digital and Data Communications
ECET 42300	Current Trends in Telecommunication Technology
ECET 44500	New Technology in Computer Systems
ECET 45500	C++ Object Oriented Programming
ECET 46200	Application of Computers in Process Control
ECET 46500	Advanced Topics in Computer Networks
ECET 46700	IP Telephony

NOTE: Students can also substitute some of the above EET Electives with courses offered in the Master of Science in Technology Program

### 3. Communication

ENGL 10400	English Composition I
COM 11400	Fundamentals of Speech Communication
ENGL 22000	Technical Report Writing

And one course from the following COM Selectives: COM 30700, 31400, 31500, 32000, 32300, 32500, 32600, 42000.

### 4. Science and Mathematics

MA 14700	Algebra and Trigonometry for Technology I
MA 14800	Algebra and Trigonometry for Technology II
MA 21900	Calculus for Technology I
PHYS 22000	General Physics I
MA 22200	Calculus for Technology II

### 5. General Education

SOC 10000	Introduction to Sociology
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### 6. Other Electives

Humanities Selective courses that have been approved by the Faculty Senate to meet the Critical Appreciation for the Arts and Works of Human Expression general education requirements (3 credits), Humanities and/or Social Science Selective (3 credits), one Open Elective (3 credits)\*\*, and one non-technical selective (3 credits) from the following: OBHR, and OLS.

\*A Minor in Business is available.

\*\*The Open Elective may be satisfied by Co-op credits, a course that satisfies a minor in Business, or non-Humanities/Social Science transfer credits.

## Bachelor of Science, Industrial Engineering Technology (IET)

The following are the Program Educational Objectives for the Baccalaureate degree in Industrial Engineering Technology (IET):

### Program Educational Objective 1:

The program will prepare graduates that are prepared for career fields in the areas associated with the development, implementation, and improvement of integrated systems that include people, materials, information, equipment, and energy by exposure to specialty topics emerging from quality and/or manufacturing practices.

### Program Educational Objective 2:

The program will prepare graduates that advance in their careers and continue their professional development.

### Program Educational Objective 3:

The program will prepare graduates that understand the overall human context in which engineering technology activities take place.

Increased sophistication in technology and management systems is fueling the need for graduates with capabilities in both technology and business. IET students are usually interested in people and the environments in which they work. They are very practical and logical and often prefer a hands-on method of learning over the theoretical method. Increased job openings will occur for graduates as automation and modernization continue to be applied in business and industry. This program prepares students for problem solving and decision making tasks required in management and technological positions.

### Bachelor of Science Degree in Industrial Engineering Technology provides knowledge in:

- Ergonomics
- Quality
- Production Planning & Control
- Lean Work Design
- Job Evaluation
- Project Management & Economic Analysis
- Plant Layout & Material Handling
- Logistics
- Statistical Process Control
- Quality Management
- Lean & Six Sigma Methodologies
- Production Cost Analysis
- Radio Frequency Identification (RFID)
- Supply Chain Management
- Process Simulation

### Career Opportunities:

- Industrial Engineer
- Manufacturing Engineer
- Process Engineer
- Quality Engineer
- Quality Manager
- Plant Manager
- Business Unit Manager
- Quality Technician
- Quality Auditor
- Research & Development Technician
- Plant Scheduler
- Six Sigma Black Belt
- Lean Leader
- Healthcare Management Engineer

## Bachelor of Science, Industrial Engineering Technology

(126/127 CREDITS)

### 1. Communication

- ENGL 10400 English Comp. I
- ENGL 22000 Technical Report Writing
- COM 11400 Fund. of Speech Comm.
- ENGL 42000 Business Writing
- COM 31500 Speech Comm. Technical Info.
- OLS 47400 Conference Leadership

### 2. Science and Mathematics

#### Math:

- MA 14700 Algebra and Trig. I
- MA 14800 Algebra and Trig. II
- MA 21900 Calculus for Technology I
- STAT 30100 Elementary Statistics

#### Science:

- CHM 11100 General Chemistry
- OR**
- CHM 11500 General Chemistry
- OR**
- BIOL 12500 Invitation to Human Biology
- PHYS 22000 General Physics
- PHYS 22100 General Physics II

### 3. Major Requirements

- MET 10000 Production Drawing & CAD
- MET 14100 Manufacturing Materials I
- MET 16100 Introduction to Engineering Technology
- MET 24200 Manufacturing Processes II
- MET 32500 Thermodynamics
- OR**
- MET 32900 Applied Heat Transfer
- IET 10400 Industrial Organization Principles of Total Quality Management
- IET 10600 Principles of Ergonomics
- IET 20400 Techniques of Maintaining Quality
- IET 22400 Production Planning and Control
- IET 26400 Fundamentals of Lean Work Design
- IET 27300 Principles of Quality and Process Improvement
- IET 31000 Plant Layout and Material Handling
- OR**
- IET 40200 Logistics and Global Supply Chain
- IET 30800 Engineering Project Management and Economic Analysis
- IET 35500 Statistical Process Control I
- IET 49500 Senior Project Survey
- IET 49700 Senior Project
- ECET 21400 Electricity Fundamentals
- OLS 25200 Human Relations in Organizations
- OLS 33100 Occupational Safety and Health
- OLS 35000 Applied Creativity for Business and Industry
- POL 30500 Technology & Society

### 4. Selectives

*\*Selective Requirements*

#### IET — Quality Specialization

- IET 27200 Job Evaluation
- IET 31100 International Quality Standards
- IET 41100 Applications of Lean Six Sigma Methodologies
- TECH Two Technology course (6 credits)
- OLS Organizational Leadership and Supervision course (3 credits)

**IET — Manufacturing Specialization**

MET 11800	Applied Mechanics: Statics
MET 21100	Applied Strength of Materials
MET 28500	Computer Numerical Control Applications
MET 35500	Automation I
MET 46100	Computer Integrated Design and Manufacturing

**5. General Education Electives (6 credits)**

- A.** At least one general education elective must be from humanities: art & design, communication, English, foreign language, music, philosophy, or appropriate interdisciplinary humanities courses. This course must be one of the courses that the Faculty Senate has approved to meet the Critical Appreciation for the Arts and Works of Human Expression general education requirement. Electives not allowed are any instrument or vocal courses.
- B.** The other general education elective may be from humanities (listed in A above) or from social sciences: anthropology, economics, ethnic studies, geography, political science, psychology, sociology, women's studies or appropriate interdisciplinary social science courses. This course must be one of the courses that the Faculty Senate has approved to meet the How People Function in Society general education requirement.

*Note: In order to qualify for the IET B.S. degree a student must attain a grade of "C" or better in all IET courses.*

**Industrial Engineering Technology**

## IET SPECIALIZATIONS

**1. BS IET – Quality Specialization**

IET 27200	Job Evaluation
IET 31100	International Quality Standards
IET 41100	Applications of Lean Six Sigma Methodologies
TECH	2 – Technology Courses
OLS	1 – Organizational Leadership & Supervision Course

**2. BS IET – Manufacturing Specialization**

MET 11800	Applied Mechanics Statics
MET 21100	Applied Strength of Materials
MET 28500	Computer Numerical Control Applications
MET 35500	Automation I
MET 46100	Computer Integrated Design and Manufacturing

**Bachelor of Science, Mechatronics Engineering Technology (MTB)**

The following are the Program Educational Objectives for the Baccalaureate degree in Mechatronics Engineering Technology (MTB):

**Program Educational Objective 1:**

The program will prepare graduates that are prepared for successful careers in the areas associated with the fabrication, testing, documentation, operation, sales, and maintenance of basic automated mechatronic (electro-mechanical) systems.

**Program Educational Objective 2:**

The program will prepare graduates that advance in their careers and continue their professional development.

**Program Educational Objective 3:**

The program will prepare graduates that understand the overall human context in which engineering technology activities take place. Adapting to the growing need for trained engineering technologists within the high speed packaging industry is the emphasis of the bachelor's degree program in Mechatronics Engineering Technology. The program combines mechanical design, manufacturing and electrical control within a foundational context of packaging machinery. The degree is also very valuable in other industrial areas as well, such as the automotive industry.

Students in this program benefit from internships offered by local packaging industries and are very mobile with career opportunities available nationwide.

**Bachelor of Science Degree in Mechatronics Engineering Technology provides knowledge in:**

- Computer Hardware & Electric Circuits
- Manufacturing Processes
- Strength of Materials
- Electrical Power & Machinery
- Process Control
- Machine Elements, Machine Design
- Programmable Logic Controllers
- Industrial Programming & Networking
- Dynamics, Mechanism Kinematics
- Fluid Power & Fluid Mechanics
- Power Electronics, Digital Applications
- Heat Transfer
- Computer Numerical Control
- Computer Aided Design & Manufacturing
- Production Design & Specifications

**Career Opportunities:**

- Technical Services
- Machine Designer
- Packaging Engineer
- Automation Specialist
- Human/Machine Interface (HMI)
- Programmer
- Controls Specialist
- Motion Control Programmer

**Bachelor of Science, Mechatronics Engineering Technology**

(128/130 CREDITS)

**1. Communication**

ENGL 10400	English Comp. I
ENGL 22000	Technical Report Writing
COM 11400	Fund. of Speech Comm.

**2. Science and Mathematics**

<b>Science:</b>	
PHYS 22000	General Physics I
<b>Math:</b>	
MA 15900	Pre-Calculus
MA 21900	Calculus for Technology I
MA 22200	Calculus for Technology II

**3. Major Requirements**

ECET 10200	Electrical Circuits I
ECET 10900	Digital Fundamentals
ECET 11000	Computer Architecture
ECET 15200	Electrical Circuits II
ECET 21200	Electric Power and Machinery
ECET 21700	Introduction to Process Control
ECET 26200	Programmable Logic Controllers
ECET 31200	Power Electronics
ECET 33000	Industrial Programming & Networking
ECET 36200	Process Control
ECET 46200	Advanced Process Control
ET 10000	Freshman Experience
ET 15100	Internship
ET 25200	Internship
ET 49500	Senior Project Survey
ET 49700	Senior Project
IET 30800	Project Management
MET 10000	Production Drawing & CAD

MET 11800	Applied Mechanics: Statics
MET 14100	Materials I
MET 21100	Applied Strength of Materials
MET 21300	Dynamics
MET 21400	Machine Elements
MET 23000	Fluid Power
MET 24200	Manufacturing Processes II
MET 42000	Machine Design
OLS 33100	Occupational Safety & Health
OLS 47400	Conference Leadership

### 3. Selectives (12 credits)

#### 4. General Education Elective (6 credits)

- A.** At least one general education elective must be from humanities: art & design, communication, English, foreign language, music, philosophy, OLS 16300 or OLS 35000 or appropriate interdisciplinary humanities courses. This course must be approved by the Faculty Senate to meet the Critical Appreciation for the Arts and Works of Human Expression general education requirement. Electives not allowed are any instrument or vocal courses.
- B.** The other general education elective may be from humanities (listed in A above) or from social sciences: anthropology, economics, ethnic studies, geography, political science, psychology, sociology, women's studies or appropriate interdisciplinary social science courses. This course must be approved by the Faculty Senate to meet the Relationships Between Technology and Society general education requirement.
- C.** Any social science or humanities elective.

## Bachelor of Science, Mechanical Engineering Technology

The following are the Program Educational Objectives for the Baccalaureate degree in Mechanical Engineering Technology (MET):

#### Program Educational Objective 1:

The program will prepare graduates that are prepared for successful careers in the areas associated with the fabrication, testing, documentation, operation, sales, maintenance, analysis, applied design, development, implementation, and oversight of mechanical systems.

#### Program Educational Objective 2:

The program will prepare graduates who advance in their careers and continue their professional development.

#### Program Educational Objective 3:

The program will prepare graduates who understand the overall human context in which engineering technology activities take place.

Growing demand for modern and complex industrial machinery, machine tools, robotics, and computer controlled processes require highly qualified technologists for their development, manufacture, use, and support. MET students usually are interested in mechanical activities, and often enjoy working on vehicles and machines.

### Bachelor of Science Degree in Mechanical Engineering Technology provides knowledge in:

- Materials
- Applied Mechanics: Statics
- Computations & Analysis
- Production Drawing & Computer Aided Design
- Computer Numerical Control Applications
- Applied Fluid Mechanics
- Applied Mechanism Kinematics
- Applied Thermodynamics
- Applied Heat Transfer
- Automation & Instrumentation
- Machine Design
- Applied Strength of Design Materials

- Dynamics
- Machine Elements
- Internal Combustion Engines
- Design for X
- Fluid Power
- Manufacturing Processes
- Strength of Materials/Testing

#### Career Opportunities:

- Vibration Analyst
- Assistant Project Engineer
- Product Engineer
- Quality Assurance Manager
- Computer Aided Design (CAD) Operator
- Product Design Engineer
- Manufacturing Engineer
- Technical Services

## Bachelor of Science, Mechanical Engineering Technology

(124 CREDITS)

### 1. Communication

ENGL 10400	English Comp. I
ENGL 22000	Technical Report Writing
COM 11400	Fund. of Speech Comm.
ENGL 42000	Business Writing

### 2. Science and Mathematics

Science:

CHM 11100	General Chemistry
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**OR**

CHM 11500	General Chemistry
PHYS 22000	General Physics
PHYS 22100	General Physics II

Math:

MA 14700	Algebra and Trig. I
MA 14800	Algebra and Trig. II
MA 21900	Calculus for Technology I
STAT 30100	Elementary Statistical Methods
MA 22200	Calculus for Technology II

### 3. Major Requirements

ECET 21400	Electricity Fundamentals
MET 10000	Production Drawing & CAD
MET 10200	Production Design and Specifications
MET 11800	Applied Mechanics: Statics
MET 14100	Manufacturing Materials I
MET 16100	Introduction to Engineering Technology
MET 16200	Computational Analysis Tools in MET
MET 21100	Applied Strength of Materials
MET 21300	Applied Mechanics: Dynamics
MET 21400	Machine Elements
MET 23000	Fluid Power
MET 24200	Manufacturing Processes II
MET 31300	Applied Fluid Dynamics
MET 32500	Applied Thermodynamics
MET 32900	Applied Heat Transfer
MET 46100	Computer Integrated Design and Manufacturing
MET 49500*	Senior Project Survey
MET 49700	Senior Project
IET 22400	Planning, Control and Service Environments
IET 30800	Engineering Project Management and Economic Analysis

- OLS 33100 Occupational Safety and Health
- OLS 47400 Conference Leadership

*\*All students must take the CMfgT exam during this course.*

**4. Selectives (12 credits)**

**MET — Quality Specialization**

- IET 26400 Fundamentals of Lean Work Design
- IET 27300 Principles of Quality and Process Improvement
- IET 35500 Statistical Process Control I
- IET 41100 Principles of Lean Thinking

**MET — Manufacturing Specialization**

- MET 28500 Computer Numerical Control Applications
- MET 35500 Automation I
- Two IET Courses with the approval of advisor

**5. Elective (3 credits)**

*Elective with advisor approval*

**6. General Education Elective (6 credits)**

- A.** At least one general education elective must be from humanities: art & design, communication, English, foreign language, music, philosophy, OLS 16300 or OLS 35000 or appropriate interdisciplinary humanities courses. Electives not allowed are any instrument or vocal courses. This course must be approved by the Faculty Senate to meet the Critical Appreciation for the Arts and Works of Human Expression general education requirement.
- B.** The other general education elective may be from humanities (listed in A above) or from social sciences: anthropology, economics, ethnic studies, geography, political science, psychology, sociology, women’s studies or appropriate interdisciplinary social science courses. This course must be approved by the Faculty Senate to meet the How People Function in Society general education requirement.
- C.** Any social science or humanities elective.

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## Mechanical Engineering Technology

MET SPECIALIZATIONS

**1. BS MET—Quality Specialization**

- IET 26400 Methods of Lean Work Design
- IET 27300 Principles of Quality and Process Improvement
- IET 35500 Statistical Process Control I
- IET 41100 Principles of Lean Thinking

**2. BS MET—Manufacturing Specialization**

- MET 28500 Computer Numerical Control Applications
- MET 35500 Automation I
- Two IET Courses with the approval of advisor

# Master of Science in Technology

The Master of Science in Technology degree offered by Purdue University Calumet prepares students to become leaders in technology disciplines. The program allows students pursue an advanced degree in a focus technology discipline, with the flexibility to pursue interdisciplinary interests and develop leadership skills based on ethics and an understanding of global issues affecting technology. Graduates of the Purdue University Calumet Master of Science in Technology degree will not only understand leading-edge concepts, but also be able to strategically apply them.

Designed to allow students to achieve their career objectives, the program is a flexible, directed-project based 33 hour plan of study in which students can choose their primary focus in any one of the School of Technology programs in which we offer a Bachelor of Science degree, or an approved interdisciplinary area.

*Purdue University Calumet School of Technology disciplines:*

- Computer Graphics Technology
- Computer Information Technology
- Construction Management & Engineering Technologies
- Electrical Engineering Technology
- Industrial Engineering Technology
- Mechanical Engineering Technology
- Mechatronics Engineering Technology
- Organizational Leadership & Supervision

Purdue University Calumet's approach of merging technology with other areas of study and allowing students to customize their course of study means that students in the program can study interdisciplinary and specialized aspects of their fields. This broad-based, flexible degree produces graduates who can enter the marketplace with a distinct and sought-after advantage.

## Plan of Study

The program consists of 33 hours with three core courses (9 credit hours),  
IT 50700 Measurement and Evaluation in Industry & Technology,  
IT 50800 Quality and Productivity in Industry & Technology, and  
TECH 64600 Analysis and Research in Industry and Technology;

4 primary area courses (12 credit hours) in the area of concentration,

3 courses in technical electives (9 credit hours), and

a directed project course (total of 3 credit hours). The directed project focuses on an applied research issue in the student's area of interest.

Interested students should contact Prof. Mohammad Zahraee, Assistant Dean for Graduate Studies in the School of Technology, at 219-989-2966, zahraee@purduecal.edu, for further information about the program and the plan of study, or Jody Kidd, Graduate Program secretary, at 219-989-2966, jkidd@purduecal.edu, FAX 219-989-8110.

## Admission Requirements

*Admission will be based on the following criteria and documentation:*

- B.S. from an accredited technology program or related fields.
- Undergraduate GPA of 3.0 or greater based on a 4.0 scale.
- Appropriate experience as documented in a resume.
- A goal statement or statement of purpose commensurate with the program and faculty strengths. (A template is available through Jody Kidd).

Students who do not meet the requirements for unconditional admission may be considered for conditional admission.

## Application Requirements

*Applicants must submit all of the following:*

- Online Application - Purdue University Graduate School Electronic Application found at: <http://www.gradschool.purdue.edu/indexFlash.cfm>;
- Official transcripts of all work listed on the application (must include undergraduate degree);
- Statement of purpose and resume; and
- Three letters of recommendation from academic or professional references (Recommendations from friends or family members are not given weight).  
A form can be found at: <http://www.gradschool.purdue.edu/admissions/#RL>

**GRE is not required for the MS Technology degree, but may be considered for those applicants who do not meet the minimum GPA for unconditional admission.**

## International Students:

There are additional requirements for international students. International students are encouraged to work through International Student Services, [www.purduecal.edu/international](http://www.purduecal.edu/international)

For admission requirements and further information, please go to: <http://webs.purduecal.edu/techgrad/>

*The Center for*  
STUDENT ACHIEVEMENT

# Center for Student Achievement

The Center for Student Achievement (CSA) consists of several important university initiatives that are known for their role in student success. Academic Advising, Academic Recovery Program, and Skills Assessment and Development are just a few of the areas that play an important role in student success.

## Academic Advising

One of the first and most important functions that CSA performs is academic advising. Academic advising is a proven activity that helps students become successful from matriculation through graduation. CSA advisors assist undeclared students in course selection as they guide these students in pursuit of a major. CSA advisors work with students who are not directly admitted into their chosen major as well as assist all temporarily admitted students. The advisors also provide an academic presence at various University functions and often pre-advise potential university students.

## Academic Recovery Program

The Academic Recovery Program is designed to encourage both persistence and retention by providing intervention services for students who are at risk of academic dismissal and is only required for students on probation due to their cumulative GPA. Purdue Calumet developed this program based on research and successful programs at other universities. Interventions include enrolling in a special study skills course that addresses issues (personal effectiveness, understanding learning styles and objectives, note taking, test preparation, etc) to encourage student success, working with an academic advisor to select appropriate courses for the upcoming semester, and develop strategies that help students meet goals and make progress toward their degree objective.

## Learning Communities

Within the Center for Student Achievement, new students participate in learning communities through a predetermined block schedule of first-semester courses, a common reading program, and activities specifically aimed at first-year students. Taking part in a learning community will provide students the opportunity to develop personal connections with faculty and other students, take courses that research has shown are vital to student success, and broaden their learning experience. A block schedule is designed to give first- semester students the foundation they need to be successful at Purdue Calumet. Courses include Math, English, Speech and a First Year Experience course. Within this framework, students may be enrolled in up to four courses with the same group of students. The cohesive, in-class and out-of-class activities planned around a central theme through the common reading program will offer students a richer academic experience. In addition, students benefit from the opportunity to integrate coursework in an interdisciplinary manner. Learning communities provide students increased faculty-to -student interactions while promoting faculty-to-faculty collaboration.

## Academic Resource Center (ARC)

Academic Resource Center (ARC) provides tutoring and testing to all university students. Free tutoring services are available for most academic subjects. There is also a low cost tutoring program available for the surrounding community. A specialized group tutoring program, Supplemental Instruction (SI), is offered for specific courses. The SI tutors are current Purdue students who have proven themselves academically and qualify for the SI program. ARC also provides admissions testing for potential university undergraduate and graduate students through the administration of the SAT, ACT, ISAT, PRAXIS I and II, the NLN (Nursing Challenge Exam), and GRE subject area tests. The college Level Examination Program (CLEP) and Foreign Language Proficiency test are also available.

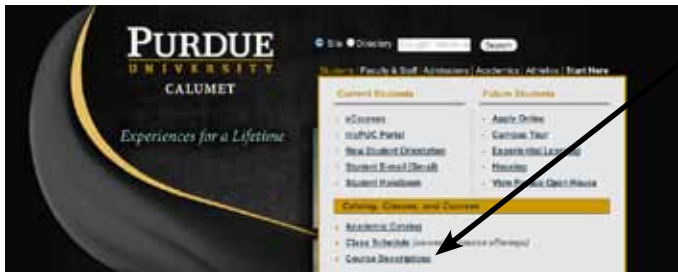
- **Cathi Kadow** (1995). Manager, Academic Advisor. A.A. South Suburban College, 1987. A.S., 1988. B.A. Purdue University, 1990. M.A., 1992. [catkadow@purduecal.edu](mailto:catkadow@purduecal.edu)
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Course numbered 10000-49999 are primarily for undergraduate students. Courses numbered 50000-59999 are for undergraduate (usually juniors and seniors) and graduate students. Course numbered 60000-69999 and above are for graduate students only.

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SUBJ. CODE	DESCRIPTION	SUBJ. CODE	DESCRIPTION	SUBJ. CODE	DESCRIPTION
A&AE	Aeronautical & Astronautical Engineering	ENTR	Entrepreneurship	MET	Mechanical Engineering Technology
A&D	Art & Design	EQU	Equine Management	MGMT	Management
ANSC	Animal Science	ET	Engineering Technology	MSE	Materials Engineering
ANTH	Anthropology	ETHN	Ethnic Studies	MILT	Military Service
ARAB	Arabic	F&N	Foods and Nutrition	MSL	Military Science and Leadership
ARET	Architectural Technology	FLL	Foreign Languages and Literatures	MUS	Music History and Theory
ASTR	Astronomy	FM	Fitness Management	NRES	Natural Resources and Environmental Sciences
BA	Business Administration	FR	French	NUR	Nursing
BHS	Behavioral Sciences	GEOG	Geography	OBHR	Organizational Behavior
BIOL	Biology	GER	German	OLS	Organizational Leadership and Supervision
CE	Civil Engineering	GNS	General Studies	PHIL	Philosophy
CS	Computer Science	GRAD	Graduate Studies	PHYS	Physics
CDFS	Child Development and Family Studies	GREK	Greek	PLSH	Polish
CET	Civil Engineering Technology	HEBR	Hebrew	POL	Political Science
CGT	Computer Graphics Technology	HIST	History	PSY	Psychology
CHM	Chemistry	HONR	Honors	PTGS	Portuguese
CHNS	Chinese	HORT	Horticulture	RUSS	Russian
CIS	Computer Information Systems	HSCI	Health Sciences	SCI	Science
CMET	Construction Management Engineering Technology	HTM	Hospitality and Tourism Management	SERV	Service Learning
COM	Communication	IDIS	Interdisciplinary Studies	SOC	Sociology
EAS	Earth, Atmospheric Sciences	IE	Industrial Engineering	SPAN	Spanish
ECE	Electrical, Computer Engineering	IET	Industrial Engineering Technology	SRCT	Serbo-Croatian
ECET	Electrical, Computer Engineering Technology	IT	Industrial Technology	STAT	Statistics
ECON	Economics	ITAL	Italian	SWAH	Swahili
EDCI	Education, Curriculum and Instruction	ITS	Information Technology Systems	TECH	Technology
EDFA	Educational Foundations and Administration	JPNS	Japanese	THTR	Theater
EDPS	Education and Professional Studies	LAS	Latin American Studies	URDU	Urdu
ENE	Engineering Education	LTHN	Lithuanian	WOST	Women's Studies
ENGL	English	MA	Mathematics		
ENGR	Engineering	ME	Mechanical Engineering		

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**Jana L. Whittington** (2001) Associate Professor, Computer Graphics Technology. A.A., Yavapai College, 1993. B.F.A., Northern Arizona University, 1996. M.A., California State University, 1999. Ph.D., Capella University, 2010. [whitting@purduecal.edu](mailto:whitting@purduecal.edu)

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**Brian M. Willis** (2006) Associate Server Administrator. B.S., Purdue University Calumet, 1999.

**Kenneth S. Wilson** (1950–1953, 1954–87) Professor Emeritus of Biological Sciences. B.S., Colorado College, 1949. M.S., University of Wyoming, 1950. Ph.D., Purdue University, 1954.

**Natrona F. Wilson** (2004) Academic Coordinator. B.A., Purdue University Calumet, 1985. M.A., 1989.

**Charles R. Winer** (1983) Department Head–Computer Information Technology Graphics Professor. B.A., Governors State University, 1977. M.A., 1984. [winer@purduecal.edu](mailto:winer@purduecal.edu)

**Pamela Witt** (2011) Building Services Supervisor–Evening, Bachelors, Indiana University Northwest.

**Cheryl Wojcik** (2011) Assistant Comptroller, Masters, Keller Graduate School of Management.

**Gretchen Wolf** (2001) Continuing Lecturer. B.S., Knox College, 1971.

**Bin Wu** (2009) Research Engineer.

**Erna B. Yackel** (1984) Professor Emerita of Mathematics Education. B.S., Dickinson State College, 1957. M.A., University of Minnesota, 1960. Ph.D., Purdue University, 1984. [yackeleb@purduecal.edu](mailto:yackeleb@purduecal.edu)

**James Yackel** (1966–2001) Chancellor Emeritus; Professor Emeritus of Mathematics. B.A., University of Minnesota, 1958. M.A., 1960. Ph.D., 1964. [yackelj@purduecal.edu](mailto:yackelj@purduecal.edu)

**Shuhui Yang** (2009) Assistant Professor of Computer Science. B.S. Nanjing University (PRC) 2000. Ph.D. Florida Atlantic University 2007.

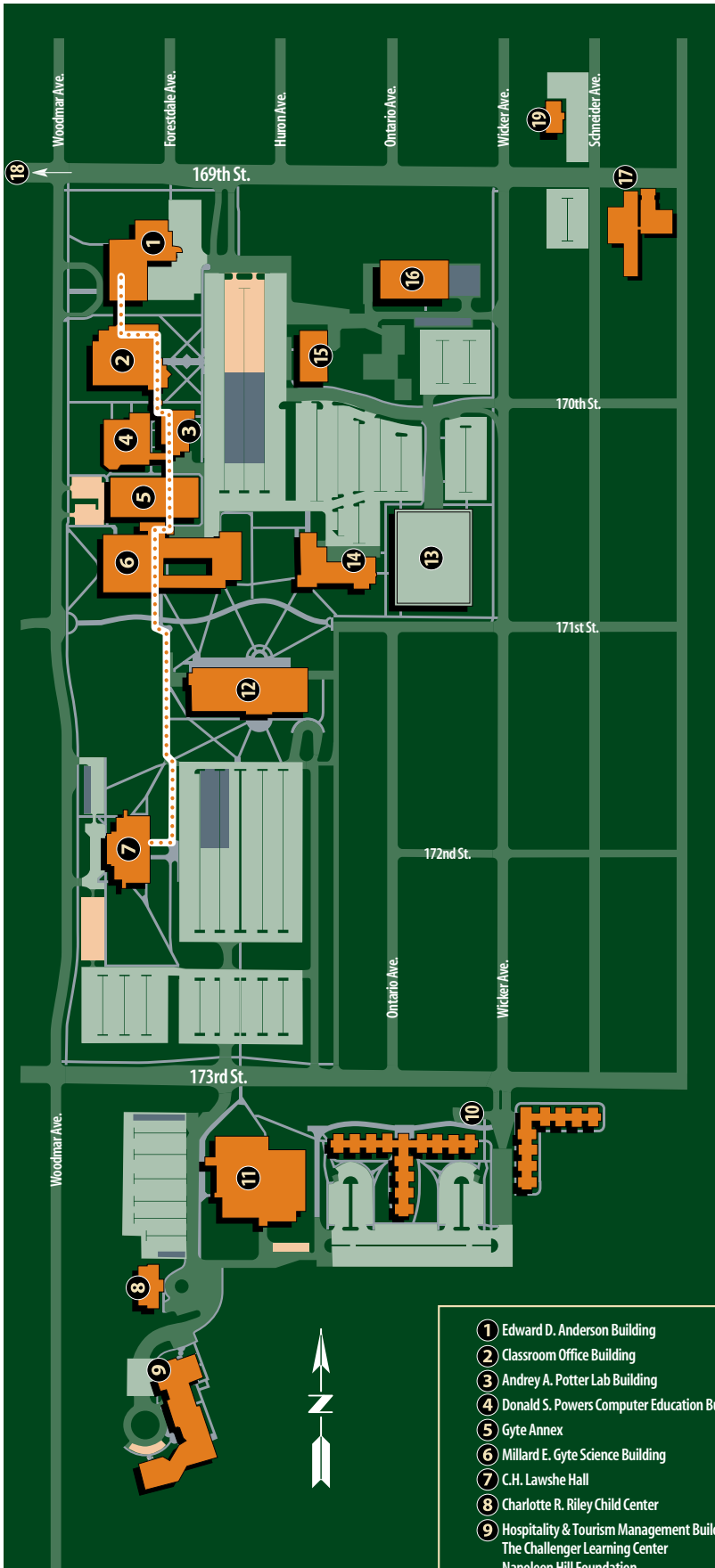
- Xiaoli Yang** (2005) Associate Professor, Computer Engineering. B.E., Taiyuan University of Technology (PRC), 1993. M.E., 1997. M.A., Carleton University (Canada), 2002. Ph.D., China University of Mining & Technology, 2000.
- Richard L. Yates** (1967-1993) Professor Emeritus of Mathematics. B.S., Florida Southern College, 1952. M.A., University of Florida, 1954. Ph.D., 1957.
- Chen Ye** (2011) Assistant Professor MIS; BS, Peking University, 1997. MS University of Illinois at Chicago (UIC), 2004. Ph.D. University of Illinois at Chicago (UIC), 2009
- Daniel J. Yovich** (1979-2000) Professor Emeritus of Organizational Leadership and Supervision. Ph.B., De Paul University, 1952. M.A., Governors State University, 1975. M.A., 1976.
- Jinsong Yu** (2009) Post-Doctoral Researcher II.
- Mohammad A. Zahraee** (1989) Professor of Mechanical Engineering Technology. B.S., Southern Illinois University, 1981. M.S., University of Illinois at Chicago, 1982. Ph.D., 1988. P.E., Indiana. [zahraee@purduecal.edu](mailto:zahraee@purduecal.edu)
- Lauren Zajac** (2010) Continuing Lecturer English Language Program, Masters, Illinois State University.
- Heather L. Zamojski** (2003) Instructional Technology Specialist. B.A., Purdue University Calumet, 2002.
- Yueqi Zhang** (2009) Assistant Professor of Communications.
- Ruijian Zhang** (2002) Associate Professor Computer Science. B.S., Shanghai Second Polytechnic University, 1987. M.S., University of Houston, 1997. Ph.D., 2002.
- Xu Zhang** (2007) Research Scientist. B.S., Nanjing University, 2004. M.S., Purdue University, 2006.
- Hairong Zhao** (2005) Associate Professor Computer Science. B.S., Taiyuan University of Technology, 1994. M.S., Beijing University of Posts & Telecommunication, 1997. Ph.D., New Jersey Institute of Technology, 2005.
- Lin Zhao** (2007) Assistant Professor MIS. B.S., Tianjin University, 1999. M.S., 2001. Ph.D., Case Western Reserve University, 2008.
- Chenn Qian Zhou** (1994) Head of Mechanical Engineering/Director, Center for Innovation through Visualization and Simulation. B.S., Nanjing Aeronautical Institute, 1982. M.S., 1984. Ph.D., Carnegie Mellon University 1991. [zhou@purduecal.edu](mailto:zhou@purduecal.edu)
- Michael I. Zimmer** (2008) Assistant Professor of biological Sciences.
- Lynn W. Zimmerman** (2002) Associate Professor, Education. B.A., University of North Carolina – Chapel Hill, 1975. M.L.S., 1996. Ph.D., University of North Carolina-Greensboro, 2002.
- Samuel Zinaich** (1998) Associate Professor of Philosophy. B.A., Covenant College, 1985. M.A., Bowling Green State University, 1991. Ph.D., 1997.
- Jamie Zweig** (2008) Clinical Assistant Professor. M.S.N., St. Xavier University, 1997.

*\*Faculty and Administrative Staff listing was provided by Purdue Calumet's Human Resources as of July 14, 2011. Any additions or changes after that date are not reflected in this list.*

# PURDUE

## UNIVERSITY

### CALUMET



<ul style="list-style-type: none"> <li>1 Edward D. Anderson Building</li> <li>2 Classroom Office Building</li> <li>3 Andrey A. Potter Lab Building</li> <li>4 Donald S. Powers Computer Education Building</li> <li>5 Gyte Annex</li> <li>6 Millard E. Gyte Science Building</li> <li>7 C.H. Lawshe Hall</li> <li>8 Charlotte R. Riley Child Center</li> <li>9 Hospitality &amp; Tourism Management Building The Challenger Learning Center Napoleon Hill Foundation</li> <li>10 The University Village — Student Housing Phase I and Phase II</li> <li>11 Fitness &amp; Recreation Center</li> <li>12 Student Union &amp; Library</li> </ul>	<h4>BUILDING NAME LEGEND</h4> <ul style="list-style-type: none"> <li>13 169th Street Parking Garage</li> <li>14 Gene Stratton Porter Hall</li> <li>15 University Police</li> <li>16 University Services</li> <li>17 Schneider Avenue Building</li> <li>18 1247 169th Street*</li> <li>19 Community Services Center</li> </ul> <p>MERRILLVILLE LOCATIONS</p> <ul style="list-style-type: none"> <li>● Academic Learning Center* 9900 Connecticut Drive, Merrillville</li> <li>● Purdue Technology Center of Northwest Indiana* 9800 Connecticut Drive, Merrillville</li> </ul>
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\*Denotes an off campus site.

# Directions to Purdue University Calumet

## Location and Mailing Address

Purdue University Calumet  
2200 169th Street  
Hammond, IN 46323-2094

### From Northeast/Northwest/West

- (From Northeast/Northwest) Take I-94 or Tollway 294 South to I-80/94
- (From Northeast) Take I-80/94 West to Indianapolis Boulevard
- (From Northwest/West) Take I-80/94 East to Indianapolis Boulevard
- Take Indianapolis Boulevard North one-third mile to 173rd Street
- Turn East/Right onto 173rd Street and proceed 3+ blocks to campus

### From North (I-90)

- Take I-90 (Chicago Skyway) South to Indianapolis Boulevard
- Continue South on Indianapolis Boulevard some 8 miles to 169th Street
- Turn East/Left onto 169th Street and proceed 3+ blocks to campus

### From East

- Take I-80/94 West to Indianapolis Boulevard
- Take Indianapolis Boulevard North one-third mile to 173rd Street
- Turn East/Right onto 173rd Street East and proceed 3+ blocks to campus

### From Southwest/South/Southeast

- (From Southwest) take US Route 30 east to Highway 41/Indianapolis Boulevard
- (From Southeast) take I-65 North to I-80/94 and follow directions From East, or take US Route 30 west to Highway 41/Indianapolis Boulevard
- (From South, Southwest & Southeast) Take Highway 41/Indianapolis Boulevard North 7 miles to 173rd Street
- Turn East/Right onto 173rd Street and proceed 3+ blocks to campus

# Directions to Academic Learning Center

## Location

Academic Learning Center  
9900 Connecticut Drive  
Merrillville, Indiana 46307

## Mailing Address

Academic Learning Center  
9900 Connecticut Drive  
Crown Point, Indiana 46307

### From North

- Take I-65 South to Route 30 West
- Take US Route 30 West to Broadway Avenue (IND Route 53)—Turn Left
- Travel South on Broadway Avenue 2.5 miles
- Turn Left on 98th Avenue
- Turn Right on Connecticut Drive

### From the Northwest

- Take Indianapolis Boulevard South to Route 30 East—Turn Left
- Take US Route 30 East to Broadway Avenue (IND Route 53)—Turn Right
- Travel South on Broadway Ave. 2.5 miles
- Turn Left on 98th Avenue
- Turn Right on Connecticut Drive

### From South

- Travel I-65 North
- Exit #247 (US 231 North)
- Bear Right on Broadway Avenue (IND Route 53) approximately 3.5 miles
- Turn Right on 98th Avenue
- Turn Right on Connecticut Drive

### From East

- Travel West on US Route 30 to Broadway Avenue (IND Route 53)—Turn Left
- Travel South on Broadway Avenue 2.5 miles
- Turn Left on 98th Avenue
- Turn Right on Connecticut Drive

# *Calendar 2011-2012*

## **Fall 2011**

Mon. Aug. 22	Fall classes begin
Mon. Sept. 5	Labor Day (no classes)
Mon. Oct. 17 & Tues. Oct. 18	October Break (no classes)
Wed. Nov. 23	Fall Recess (no classes)
Mon. Nov. 28	Classes resume
Sat. Dec. 10	Classes end
Mon. Dec. 12	Final exams begin
Sat. Dec. 17	Final exams end

## **Spring 2012**

Mon. Jan. 16	Martin Luther King Day (no classes)
Tues. Jan. 17	Spring classes begin
Mon. Mar. 12	Spring recess begins
Mon. Mar. 19	Classes resume
Sat. May 5	Classes end
Mon. May 7	Final exams begin
Sat. May 12	Final exams end
Sun. Commencement	(date to be announced)

## **Summer 2012**

Mon. May 14	Summer session I begins
Mon. May 28	Memorial Day (no classes)
Mon. June 11	Summer session II begins
Wed. July 4	Independence Day (no classes)
Mon. July 9	Summer session III begins
Fri. Aug. 3	Summer sessions end

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