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2007-09 BULLETIN



College of **Technology** Catalog

## **Purdue University Publications**

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Bulletins are issued by each of the divisions listed below and are available for free. Forward requests to Purdue Marketing Communications, [pmc@pmc.purdue.edu](mailto:pmc@pmc.purdue.edu); telephone (765) 494-2034. The mailing address is: Purdue Marketing Communications; Purdue University; South Campus Courts, Building D; 507 Harrison Street; West Lafayette, IN 47907-2025. Please write legibly and include your zip code.

### **College and School Bulletins**

College of Agriculture  
College of Consumer  
and Family Sciences  
College of Education  
College of Engineering  
School of Health Sciences  
College of Liberal Arts  
Krannert School of Management  
School of Nursing  
School of Pharmacy  
and Pharmaceutical Sciences  
College of Science  
College of Technology  
School of Veterinary Medicine

### **Other Publications**

Facts About Purdue  
General Information  
Getting Involved at Purdue  
Introducing Purdue University  
Nurturing the Spirit  
Parent Handbook  
Summer Session  
University Regulations  
Welcome to Purdue Campus Map



## College of Technology

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2007–2009

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## About Purdue University

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Serving people was Purdue University's founding principle as the Indiana link in the nationwide chain of land-grant colleges and universities. Purdue, which opened its doors on September 16, 1874, with a student body of 39 and a staff of six, has grown into a world-class educational system of 69,600 students and about 18,400 faculty and staff members across Indiana. The West Lafayette campus comprises 39,200 students and nearly 15,000 faculty and staff members.

Purdue graduates have been to the moon, to the highest levels of business and government, and to Sweden to receive the Nobel Prize. The roster of about 384,000 living alumni includes noted CEOs, agriculturalists, scientists, teachers, engineers, pharmacists, journalists, veterinarians, and athletes who have made notable contributions to our society.

Purdue has been a vital resource to the people of Indiana, the nation, and the world — from its land-grant foundation to its status today as a prominent land-, sea-, and space-grant university that champions its missions of learning, discovery, and engagement.

Making higher education available to the people was the plan in 1862 when President Lincoln signed the Morrill Act. That act gave public lands to any state that would use proceeds from the sale of the land to support a college that would teach agriculture and the mechanic arts.

Three years after passage of the land-grant act, the Indiana General Assembly voted to take advantage of the provisions. Competition among various areas of the state culminated in 1869 when the assembly accepted \$150,000 from Lafayette civic leader John Purdue, \$50,000 from Tippecanoe County, and 100 acres of land from local citizens. In appreciation, the institution was named Purdue University and was established in West Lafayette. The University officially opened for classes September 16, 1874.

Purdue quickly established prominence in agriculture and engineering, answering the immediate needs of the people. And it has since built solid reputations in veterinary medicine, technology, a range of sciences, pharmacy, nursing, management, liberal arts, health sciences, education, and consumer and family sciences.

The physical growth of campus also has been dramatic. Originally the campus consisted of three buildings rising out of Indiana farm-

land. Today the main campus encompasses 160 major buildings. Nearly \$600 million worth of new construction and renovation is under way or scheduled to occur at Purdue in West Lafayette during the first seven years of the new millennium.

The Purdue system has expanded to include Purdue campuses at Fort Wayne, Hammond, and Westville, and degree programs at Indiana University-Purdue University Indianapolis and Indiana University-Purdue University Columbus. Purdue's College of Technology exists in 10 Indiana communities in addition to the West Lafayette campus.

The mission of answering the people's needs goes beyond educating productive graduate and undergraduate students. Purdue is a highly respected research institution, with research and sponsored program expenditures of over \$395.9 million in the 2004–05 fiscal year on the West Lafayette campus. In addition, the University offers its expertise to the state of Indiana in numerous ways, as well as to business and industry, retailers, and teachers.

Purdue's impact in Indiana is evident daily through its spectrum of learning, discovery, and engagement. The University has an annual impact of more than \$2.5 billion on Indiana's economy. Purdue's march toward preeminence has solid footing in the development of Discovery Park, where the University's talent and ideas are pacesetters in interdisciplinary world-leading nanotechnology and biosciences research and discovery.

Outreach programs include the Purdue University Cooperative Extension Service, with sites in each of Indiana's 92 counties serving as a gateway to lifelong learning. The Office for Continuing Education and Conferences serves tens of thousands of adult learners annually through Purdue courses for personal and professional development offered on campus, off campus, and by distance education.

Purdue is also a cultural and recreational hub for people in northwestern Indiana. The Edward C. Elliott Hall of Music, one of the largest proscenium theaters in the world, houses 6,025 spectators for music, dance, theatre, and pop entertainment. Boilermaker fans crowd Ross-Ade Stadium, Mackey Arena, and the Intercollegiate Athletic Facility for Big Ten Conference football, basketball, and volleyball.

Purdue University ranks among the 25 largest universities in the United States. Its position of leadership and influence in teaching and research stems in large part from its worldwide acclaim in engineering, science, and technology, but its preeminence is bolstered by an exciting array of academic disciplines. On the West Lafayette campus, there are 370 majors/specializations to choose from within the following colleges and schools:

### ***College of Agriculture***

Among the nation's highest ranked and most prestigious institutions, the college offers excellent teaching, research, extension, and international programs. More than 40 programs of study prepare scientists, engineers, business representatives, producers, information specialists, and resource managers for professional careers in the world's food and natural resource systems. See [www.agriculture.purdue.edu/oap](http://www.agriculture.purdue.edu/oap).

### ***College of Consumer and Family Sciences***

The college, one of the largest and highest ranking of its kind in the nation, prepares men and women for careers related to the needs of families and consumers. Students can choose a bachelor of science degree program from 13 majors in the areas of family studies and child development, consumer sciences and consumer business, hospitality, nutrition, health and fitness, tourism, and education. The Department of Hospitality and Tourism Management also offers an associate degree program. See [www.cfs.purdue.edu](http://www.cfs.purdue.edu).

### ***College of Education***

The state accredited and nationally ranked and accredited College of Education prepares outstanding teachers, instructional leaders, administrators, school counselors, counseling psychologists, curriculum specialists, teacher educators, and educational researchers for the essential roles they play in guiding the education of our youth. Through interdisciplinary instructional programs in teacher education, research in the educational process, and engagement with Indiana schools, College of Education graduates are well prepared for a rewarding career in education. The dedicated and experienced faculty members, some of whom are known internationally as experts in their fields, are respected leaders in a wide range of curriculum areas and are actively engaged in research. Together our students and faculty share a passion for learning,

teaching, and changing the world. The college offers undergraduate and graduate degrees in a variety of disciplines. In addition to the teacher education programs offered by the College of Education, teacher preparation programs are also offered through other colleges and schools across campus. See [www.education.purdue.edu](http://www.education.purdue.edu).

### ***College of Engineering***

The College of Engineering is internationally known for the quality and scope of programs. Students launch their careers with a common first-year program in the Department of Engineering Education. Once they have completed that program, they choose from undergraduate curricula in aeronautics and astronautics, agricultural and biological, biomedical, chemical, civil, computer, construction engineering and management, electrical, food process, industrial, interdisciplinary, land surveying and geomatics, materials, mechanical, or nuclear engineering. Every school and department offers graduate degree programs. See [www.engineering.purdue.edu](http://www.engineering.purdue.edu).

### ***School of Health Sciences***

The school offers a variety of health-related study areas, including medical technology, medical physics, health physics, industrial hygiene, and related environmental and general health science programs. It also administers the prepharmacy, premedical, pre dental, and pre-allied health programs, including occupational and physical therapy and dental hygiene. Students completing the programs and gaining experience in the field may qualify for professional certification. See [www.healthsciences.purdue.edu](http://www.healthsciences.purdue.edu).

### ***College of Liberal Arts***

The college offers essentially all of the traditional disciplines of the humanities, social and behavioral sciences, and creative arts. Majors and minors are available in 11 departments: audiology and speech sciences; communication; English; foreign languages and literatures; health and kinesiology; history; philosophy; political science; psychological sciences; sociology and anthropology; and visual and performing arts. Students can prepare themselves in more than 50 majors, including 11 undergraduate interdisciplinary programs. See [www.cla.purdue.edu](http://www.cla.purdue.edu).

### ***Krannert School of Management***

Degree programs include accounting, management, industrial management, and econom-

ics. Accounting and management programs focus on finance, marketing, operations, human resources, and strategic planning. The industrial management program combines management and technical education with a manufacturing management, engineering, or science minor. The accounting program combines a management background with extensive education in accounting principles and practices. All programs include coursework in the arts, humanities, and international and cross-cultural aspects of modern business. See [www.krannert.purdue.edu](http://www.krannert.purdue.edu).

### ***School of Nursing***

The School of Nursing prepares students from diverse backgrounds for careers as professional nurses. The nationally accredited undergraduate program prepares a student for licensure as a registered nurse (R.N.) and for entry into graduate studies. A diverse mix of liberal arts, science, and nursing courses gives students a scientific, multidisciplinary education. Small clinical classes give students practical experience in health assessment, maternal child care, mental health, acute care, and community health nursing. This program admits nursing majors at the freshman year and offers early hands-on clinical courses. The R.N.-to-B.S.N. program allows registered nurses to complete their baccalaureate requirements. The Second Degree Baccalaureate Program allows students who hold a degree in another field to pursue a B.S. in Nursing. The master's degree program prepares advanced practice nurses. The Doctor of Nursing Practice (D.N.P.) delivers a curriculum from post-baccalaureate to the practice doctorate degree, with an emphasis on care of rural, underserved populations. See [www.nursing.purdue.edu](http://www.nursing.purdue.edu).

### ***School of Pharmacy and Pharmaceutical Sciences***

The school offers an accredited professional program leading to the Doctor of Pharmacy degree. This program combines a basic and applied science background as well as clinical experience allowing students to function as licensed pharmacists to provide pharmaceutical care. The two prepharmacy years can be taken either at Purdue's School of Pharmacy or at another institution. The school also has a four-year, non-licensure-eligible B.S. in Pharmaceutical Sciences degree designed for entry-level pharmaceutical industry positions or as a foundation for advanced education. See [www.pharmacy.purdue.edu](http://www.pharmacy.purdue.edu).

### ***College of Science***

Actuarial science, biological sciences, chemistry, computer science, earth and atmospheric sciences, mathematics, physics, statistics, math and science secondary school teaching, and interdisciplinary science programs prepare students for immediate careers or advanced study. Premedical, pre dental, and preveterinary options; a cooperative education program; study abroad; and honors programs are available. Students may pursue official minors in other areas outside their major. Enrollment in sciences while deciding on a major in any field is encouraged. A highly qualified faculty, state-of-the-art facilities, and ongoing research keep teaching up to date. See [www.science.purdue.edu](http://www.science.purdue.edu).

### ***College of Technology***

The eight departments and 22 specializations in the College of Technology prepare students to meet the technological needs of business, industry, and government. Technology students begin taking courses in their major as early as the freshman year. Courses and other opportunities allow students to experience a variety of hands-on, real-world applications. The college awards associate, bachelor's, and graduate degrees. See [www.purdue.edu/technology](http://www.purdue.edu/technology).

### ***School of Veterinary Medicine***

This professional school, which graduated its first class in 1963, has assumed a leading position nationally and internationally in veterinary education. The school is one of only 28 in the United States that grant the Doctor of Veterinary Medicine degree. The Veterinary Technology Program is accredited by the American Veterinary Medical Association (AVMA) and awards Associate of Science and Bachelor of Science degrees. The Associate of Science degree is also offered via distance learning. The Veterinary Technology Program at Purdue is the only such program in the state of Indiana and one of only two AVMA programs administered by a school of veterinary medicine. See [www.vet.purdue.edu/admissions](http://www.vet.purdue.edu/admissions).

### ***The Graduate School***

All programs of graduate study and research leading to advanced degrees are under the Graduate School's jurisdiction. Programs of study lead to the degrees of Doctor of Philosophy, Doctor of Audiology, Doctor of Nursing Practice, Educational Specialist, Master of Arts, Master of

Arts in Teaching, Master of Fine Arts, Master of Business Administration, Master of Science, and Master of Science in various professional fields. More than 70 robust programs with research- and practice-oriented curricula are available in

options that include the sciences, arts, engineering, agriculture, management, and humanities as well as exciting interdisciplinary programs. The Graduate School also offers several graduate-level, academic credit certificate programs. See [www.gradschool.purdue.edu](http://www.gradschool.purdue.edu).

## College of Technology

### Mission, Goals, and Programs

The College of Technology educates professional practitioners and managers of science- and engineering-based technologies and community leaders, accelerates technology transfer to business and industry, and develops innovations in the application of emerging technology through learning, engagement, and discovery. In fulfilling its mission, the College of Technology strives to:

- Provide a student-centered learning environment maintained to ensure that graduates are accomplished in technical expertise, leadership, and teaming skills necessary to excel in the global technological economy. Technology-intensive instructional laboratories are maintained at state-of-the-practice currency as the keystone of practitioner-focused learning in the foundation disciplines of the college.
- Provide extended formal and continuing education and technology transfer throughout the state to enhance the economic competitiveness and welfare of business and industry.
- Disseminate the results of inquiry and scholarship of its faculty and students toward improving the expertise of practitioners in the technological workforce.

Academic programs are offered as follows:

#### 1. Associate of Science (A.S.)

- Aviation Technology (Administration, Flight, and Aeronautical)
- Building Construction Management Technology
- Computer Graphics Technology
- Electrical Engineering Technology
- Industrial Technology
- Manufacturing Engineering Technology
- Mechanical Engineering Technology
- Organizational Leadership and Supervision

#### 2. Bachelor of Science (B.S.)

- Aviation Technology (Administration, Flight, and Aeronautical)
- Building Construction Management Technology
- Computer and Information Technology
- Computer Graphics Technology
- Electrical Engineering Technology
- Industrial Technology
- Mechanical Engineering Technology
- Manufacturing Engineering Technology
- Organizational Leadership and Supervision

#### 3. Bachelor of Science in Technology Education (B.S.)

- Technology Education
- Industrial Distribution

#### 4. Master of Science (M.S.)

- Aviation Technology
- Building Construction Management
- Computer and Information Technology
- Computer Graphics Technology
- Electrical Engineering Technology
- Industrial Technology
- Manufacturing Engineering Technology
- Mechanical Engineering Technology
- Organizational Leadership and Supervision

#### 5. Doctorate (Ph.D.)

### *College of Technology Statewide*

The Purdue College of Technology statewide is a unique partnership between education and business, industry, and government. It was created to extend Purdue's existing technology programs across the state to help meet Indiana's need for trained technologists and technicians in communities where the demand for educated workers with technical skills is high. The system also provides a mechanism for updating presently employed people in modern technology as well as helping to meet the needs of recent high school graduates who, for whatever reason, can't attend West Lafayette or a regional cam-



pus. With the cooperation of community, educational, and industrial leaders, Purdue is now able to help identify local educational needs and develop programs to meet them virtually anywhere in the state.

Through cooperative efforts, arrangements are made with local industries and other public and independent institutions to provide support courses, services, and facilities. Local business and industrial representatives are involved in the planning, development, and implementation of the program through business and industrial committees. All technical courses are taught by Purdue faculty.

The statewide system represents a direct academic and administrative extension of the College of Technology at the West Lafayette campus. Although usually located on the campus of another university, academic, administrative, and financial control rests with Purdue.

A technology executive council, representative of key executives of business, industry, government, and education, advises on the development of the overall program. This partnership assists in the identification of general needs.

**Registration.** Admitted students are enrolled at each Purdue location.

**Fees.** Fees are charged per credit hour. Fees charged vary by location, and are either set to match West Lafayette fees or the fees of the host institution at the location.

**Degrees.** All course credits apply toward a Purdue University degree and are transferable to other Purdue locations.

**Financial Aid.** Financial aid information and applications are available at each Purdue location. All financial aid is handled through the West Lafayette campus Financial Aid Office. See the "Financial Aid" section of this bulletin.

**Counseling Services.** Student counseling services are available at each Purdue program location.

**Program Design.** The programs are designed to prepare technicians and technologists for highly technical positions. All courses are offered to accommodate the work schedules of adult students as well as to serve the needs of full-time students. Both part-time and full-time students are encouraged to enroll. All programs are of the highest quality and are operated in close cooperation with local business and industrial advisory committees. All programs follow the curriculum

offered at West Lafayette. Technical courses are similar to those on the West Lafayette campus, follow the same learning outcomes, and are taught by Purdue faculty members. See specific plans of study in this bulletin.

The College of Technology statewide includes locations in Anderson, Columbus, Greensburg, Indianapolis, Kokomo, Lafayette, Muncie, New Albany, Richmond, and South Bend. Other communities in Indiana may be served as needs arise.

### Program Listings and Locations

Programs at College of Technology Statewide locations are subject to change. Contact the specific location for current information.

**Anderson.** Purdue University College of Technology at Anderson, (765) 641-4551; 319 Cottage Avenue, Anderson, Indiana 46012-3404. Location: Anderson University.

- Computer and Information Technology — A.S.
- Electrical Engineering Technology — A.S.
- Industrial Technology — A.S. and B.S.
- Mechanical Engineering Technology — A.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**Columbus.** Purdue University College of Technology at Columbus, (812) 348-7254; 4601 Central Avenue, Columbus, Indiana 47203-1769. Location: Indiana University-Purdue University Columbus.

- Computer and Information Technology — A.S. and B.S.
- Industrial Technology — A.S. and B.S.
- Mechanical Engineering Technology — A.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**Greensburg.** Purdue University College of Technology at Greensburg, (812) 622-8686; 422 E. Central Avenue, Suite 2, Greensburg, IN 47240-1834. Location: Greensburg Community Learning Center.

- Industrial Technology — A.S. and B.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**Indianapolis.** Purdue University College of Technology at Indianapolis, (317) 484-1824; 2175 Hoffman Road, Indianapolis, IN 46241-3650. Location: Aviation Technology Center.

- Aviation Management — A.S. and B.S.

**Kokomo.** Purdue University College of Technology at Kokomo, (765) 455-9339; 2300 S. Washington Street, P.O. Box 9003, Kokomo, Indiana 46904-9003. Location: Indiana University at Kokomo.

- Computer and Information Technology — A.S. and B.S.
- Computer Graphics Technology — A.S.
- Electrical Engineering Technology — A.S. and B.S.
- Industrial Technology — A.S. and B.S.
- Mechanical Engineering Technology — A.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**Lafayette.** Purdue University College of Technology at Lafayette, (765) 496-6886; 2300 5500 State Road 38 East, AD 2900, Lafayette, IN 47903-9405. Location: Subaru of Indiana Automotive Inc.

- Industrial Technology — A.S. and B.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**Muncie.** Purdue University College of Technology at Muncie, (765) 285-5554; Ball State University AT 223, Muncie, IN 47306-0256. Location: Ball State University.

- Mechanical Engineering Technology — A.S.

**New Albany.** Purdue University College of Technology at New Albany, (812) 941-2353; 4201 Grant Line Road, New Albany, Indiana 47150-6405. Location: Indiana University Southeast.

- Computer Graphics Technology — A.S.
- Electrical Engineering Technology — A.S.
- Industrial Technology — A.S. and B.S.
- Mechanical Engineering Technology — A.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**Richmond.** Purdue University College of Technology at Richmond, (765) 973-8228; 2325 Chester Boulevard, Richmond, Indiana 47374-1289. Location: Indiana University East.

- Computer Graphics Technology — A.S.
- Industrial Technology — B.S.
- Mechanical Engineering Technology — A.S.
- Organizational Leadership and Supervision — A.S. and B.S.

**South Bend.** Purdue University College of Technology at South Bend, (574) 520-4180; 1733 Northside Blvd., P.O. Box 7111, South Bend, IN 46634-7111. Location: Indiana University at South Bend.

- Computer Graphics Technology — A.S.
- Electrical Engineering Technology — A.S. and B.S.
- Industrial Technology — A.S. and B.S.
- Mechanical Engineering Technology — A.S.
- Organizational Leadership and Supervision — A.S. and B.S.

## Teacher Education Program

Purdue University offers programs that prepare students for teaching in early childhood, middle childhood (elementary education), early adolescence (junior high/middle school), adolescence/young adulthood (secondary), and exceptional needs (special education). Program standards, curricula, and licensure are in accord with regulations promulgated by the Indiana Department of Education Division of Professional Standards and authorized by the National Council for Accreditation of Teacher Education (NCATE). Descriptions of performance-based programs may vary by content areas. Official performance-based program guidelines are available via the College of Education Office of Professional Preparation and Licensure (OPPL) Web site at [www.education.purdue.edu/licensure](http://www.education.purdue.edu/licensure). Students seeking additional clarification and guidance should consult with an academic counselor or faculty advisor.

A person who already holds a bachelor's degree may wish to complete a teacher education program as an "undergraduate for licensing only" student. If this option is chosen and a second baccalaureate degree is not desired, please contact the Office of Professional Preparation and Licensure for a transcript evaluation. Eligibility requirements do apply.

**Title II Reporting Requirements.** Purdue University is in compliance with Title II reporting requirements. Please visit [www.education.purdue.edu/title2](http://www.education.purdue.edu/title2) to obtain complete details. If you are unable to access this Web site, please contact the Office of Professional Preparation and Licensure at Beering Hall of Liberal Arts and Education, Room 3229; 100 N. University Street; West Lafayette, IN 47907-2098 for a copy of the report.

## 2006–07 Teacher Education Requirements

The following information outlines the assessment of students completing a teacher education program at Purdue University. For the most current information, visit [www.education.purdue.edu/oppl/program.html](http://www.education.purdue.edu/oppl/program.html). The candidate must:

- Attend the Office of Professional Preparation and Licensure Teacher Education Orientation during Block I or CDFS 100;
- Submit the Application/Signature Form to the licensure office;
- Complete Gates A, B, and C (an application is not required for Gate B or C);
- Complete Gate D licensure requirements;
- Submit the State of Indiana license application through the Office of Professional Preparation and Licensure upon successful completion of the program.

### *Required Criteria and Suggested Time Line*

**Remain flexible.** The length of time to complete the Teacher Education Program is determined by academic progress and career planning. Additional time may be necessary if you are: **a)** changing your degree objective (CODO) or transferring, **b)** overcoming a GPA below the required teacher education program standard, **c)** pursuing an additional major or licensure area, or **d)** encountering other unknown needs or circumstances.

### *Before the First Semester:*

1. Admission to Purdue University.
2. Admission to the respective academic college, i.e., Agriculture, Consumer and Family Sciences, Education, Liberal Arts, Science, or Technology.
3. Assignment to and guidance by an academic advisor.

Consult with your academic advisor regularly to ensure that the required criteria are met and coursework is successfully completed in the sequence authorized by the Purdue University Teacher Education Council.

### *Requirements for Passing through Gate A*

(A Teacher Education Program Application/Signature Form is required. See #7.)

1. Complete required courses for Gate A, with no grade lower than a “C”:
  - Most program areas—Block I (EDCI 205, EDCI 285)
  - Early Childhood Education—CDFS 210
  - Special Education—Block I (EDCI 205, EDCI 285) and EDPS 260
2. Maintain a minimum overall GPA as established by the program area.
3. Maintain a professional education GPA of 3.0/4.0 with no grade lower than a “C” and no incomplete (“I”) for any professional education course. Courses include EDCI, EDFA, EDPS, and EDST courses, in addition to courses designated by a program area as professional education courses.
4. Maintain a minimum content/major GPA as established by the program area.
5. Meet satisfactory assessment of the initial portfolio as defined by faculty. Early Childhood Education (ECE) majors, see Unit Assessment Component Chart for ECE.
6. Meet Praxis I: Pre-Professional Skills Tests (PPST) or Computerized PPST with the following scores:
  - Reading: 176 or above
  - Writing: 172 or above
  - Mathematics: 175 or above

All scores must be officially submitted by the Educational Testing Service to Purdue University; code RA #1631 or WLAFF as a score recipient. For more details, please refer to the Teacher Education Program Testing Information sheets available in the Office of Professional Preparation and Licensure; Beering Hall, Room 3229; 101 N. University St.; West Lafayette, IN 47907-2098.

7. Submit a completed teacher education Application/Signature Form to the Office of Professional Preparation and Licensure if all of the above requirements have been met or will be met by the end of the semester (or summer session if enrolled in summer classes). The application may be marked to hold for current semester grades or test score reports. See application for due dates. A student must be enrolled in the college that houses the teacher education major in order to apply for Gate A.

The student's signature on the Signature Form acknowledges that he/she will read the teacher education information on this Web site, referring to it regularly in order to remain informed of standards and responsibilities to the Teacher Education Program process. The signature also confirms understanding of the following:

- Limited Criminal History Reports may be required throughout the Teacher Education Program for field experiences, and a report will be required for licensing.
  - Purdue University will check Zachary's Law Registry periodically.
  - The Indiana Department of Education Division of Professional Standards will review misdemeanor/felony convictions at the time of licensing.
  - Consent to release personal information and Social Security number to the State of Indiana and other state/federal departments of education and the Educational Testing Service (ETS).
8. Receive written notification of status through Gate A from the Office of Professional Preparation and Licensure.
  9. If denied admission, reapplication is required.

### ***Requirements for Passing through Gate B***

Requirements for Passing through Gate B must be met in order to continue in the program, including eligibility for study abroad block courses.

(No Teacher Education Program application is required for Gate B, although a Student Teacher Application must be submitted. See "Note" below.)

1. Complete required courses for Gate B, with no grade lower than a "C":
  - Most program areas—Block II (EDPS 235, EDPS 265)
  - Early Childhood Education—CDFFS 212B (grade of "B"), CDFFS 310, CDFFS 318, and EDPS 260
  - Special Education—Block II (EDPS 235, EDPS 265), EDPS 270, and EDPS 460
2. Maintain a minimum overall GPA as established by the program area.
3. Maintain a professional education GPA of 3.0/4.0 with no grade lower than a "C" and no Incomplete ("I") for any professional education course. Courses include EDCI, EDFA, EDPS, and EDST courses, in addition to courses designated by a program area as professional education courses.

4. Maintain a minimum content/major GPA as determined by the program area.
5. Meet satisfactory assessment of the beginning portfolio as defined by faculty. Early Childhood Education (ECE) majors, see Unit Assessment Component Chart for ECE.
6. Request a Limited Criminal History Report if required for field experiences throughout the Teacher Education Program. The Zachary's Law Registry also will be checked periodically.
7. Failure to meet or comply with the above requirements will result in removal from methods courses.
8. Receive written notification of status through Gate B from the Office of Professional Preparation and Licensure.
9. Contact the Office of Field Experiences (OFE) by mid-September of the academic year preceding the student teaching semester (i.e., junior year) to receive a pass code in order to complete the online Student Teaching Application on the Internet by November 1.

*Note:* For student teaching information, see the Office of Field Experiences (OFE) Web site at [www.education.purdue.edu/fieldexp](http://www.education.purdue.edu/fieldexp) or e-mail [fieldexp@purdue.edu](mailto:fieldexp@purdue.edu). A student must pass through Gates A and B before submitting the Student Teaching Application form to OFE. This application serves as a "letter of intent" and does not imply automatic placement.

### ***Requirements for Passing through Gate C***

(No Teacher Education Program application is required.)

1. Complete required courses for Gate C, with no grade lower than a "C":
  - Most program areas—Specific methods courses
  - Early Childhood Education—CDFFS 405, CDFFS 406, and CDFFS 408 with grades of "B"
  - Elementary Education—Block III (EDCI 361 and EDCI 362), IV (EDCI 363 and EDCI 370), and V (EDCI 364, EDCI 365, and EDPS 430)
2. Pass Praxis II: Subject Assessments/Specialty Area Tests required by the Indiana Department of Education Division of Professional Standards for licensing. For information on required tests and passing scores, please consult the Teacher Education Program Testing Information sheets and the Educational Testing Service Web site at [www.ets.org/praxis](http://www.ets.org/praxis).

*Note:* Praxis II must be passed before being allowed to student teach. Praxis II tests are only offered seven times a year and must be registered for in advance.

3. Maintain a minimum overall GPA as established by each program area.
4. Maintain a professional education GPA of 3.0/4.0 with no grade lower than a “C” and no Incomplete (“I”) for any professional education course. Courses include EDCL, EDFA, EDPS, and EDST courses in addition to courses designated by a program area as professional education courses. All professional education coursework should be completed prior to student teaching.
5. Maintain a minimum content/major GPA as established by each program area. Most, if not all, content courses should be completed before student teaching.
6. Meet satisfactory assessment of the developing portfolio as defined by faculty.
7. Receive written notification of status through Gate C from the Office of Professional Preparation and Licensure.
8. Successful completion of requirements through Gate C of the Teacher Education Program allows the Office of Professional Preparation and Licensure to authorize the student to enter the student teaching semester. For information regarding student teaching placement, please see the Office of Field Experiences (OFE) Web site at [www.education.purdue.edu/fieldexp](http://www.education.purdue.edu/fieldexp) or e-mail OFE at [fieldexp@purdue.edu](mailto:fieldexp@purdue.edu).
9. Request a Limited Criminal History Report if required for field experiences. The Zachary’s Law Registry also will be checked periodically.
10. Begin job search through the Center for Career Opportunities at [www.cco.purdue.edu/student](http://www.cco.purdue.edu/student).

### **Requirements for Passing through Gate D**

(License application is required. See #9.)

1. Student teach.
  - Professional education courses, including methods courses, must be successfully completed before student teaching.
  - You may student teach only after passing through Gate C.
  - A grade of “C” or above must be earned in EDCL/EDPS 496, 498, 499, or CDFS 450 Supervised Teaching.

For more information regarding student teaching, please see the Office of Field Experiences (OFE) Web site at [www.education.purdue.edu/fieldexp](http://www.education.purdue.edu/fieldexp) or e-mail [fieldexp@purdue.edu](mailto:fieldexp@purdue.edu).

2. Maintain a minimum overall GPA as established by each program area.
3. Maintain a professional education GPA of 3.0/4.0 with no grade lower than a “C” and no Incomplete (“I”) for any professional education course. Courses include EDCL, EDFA, EDPS, and EDST courses, in addition to courses designated by a program area as professional education courses.
4. Maintain a minimum content/major GPA as established by each program area.
5. Meet satisfactory assessment of the proficient portfolio as defined by faculty.
6. Continue to meet all criteria for passing through Gates A, B, and C.
7. Request a Limited Criminal History Report for licensure. The Zachary’s Law Registry also will be checked periodically.
8. Receive degree. Recommendation for licensure is contingent upon the posting of the degree on the transcript. All encumbrances must be paid.
9. Apply through the Office of Professional Preparation and Licensure for an Indiana Teaching License, even if leaving the State of Indiana. For more details, consult the Indiana Licensure instruction packet provided by the Office of Professional Preparation and Licensure at the Student Teacher Orientation. The license application may be submitted to the Office of Professional Preparation and Licensure two months prior to the last day of required courses. Do NOT send the license application to the Indiana Department of Education Division of Professional Standards since a recommendation from Purdue University is required.

*Note:* The following questions will be asked by the Indiana Department of Education Division of Professional Standards on the license application:

- Have you ever had a credential, certificate, or license to teach denied, revoked, or suspended in Indiana or in any other state?
- Have you ever been convicted of a felony?
- Have you been convicted of a misdemeanor other than minor traffic violations since January 15, 1994?

If a conviction of a misdemeanor or felony (including a suspended sentence) is documented, the applicant will be required to submit a written explanation and copies of court records with the license application. The Indiana Department of Education Division of Professional Standards is solely responsible for the review and response of misdemeanor or felony convictions.

10. Apply for licensure in other states, if desired. Contact the licensing office in the particular state and request application materials. Consult the National Association of State Directors of Teacher Education and Certification at [www.nasdtc.org/jurisdictions.tpl](http://www.nasdtc.org/jurisdictions.tpl) for Web sites, addresses, and telephone numbers.

*Note:* For additional licensing, apply for renewal or submit a request for an evaluation through the Office of Professional Preparation and Licensure if coursework is to be completed through Purdue University.

## Admissions

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### Admissions Inquiries and Procedures

All inquiries about admissions (whether you are entering from high school, transferring from another institution, or re-entering after being out of school) should be addressed to: Office of Admissions; Purdue University; Schleman Hall; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; [admissions@purdue.edu](mailto:admissions@purdue.edu); (765) 494-1776.

Your first inquiry concerning admission should include (1) the amount of education you have completed; (2) your plans for further education, indicating your area of interest; and (3) the approximate date of your entrance to Purdue.

When you are entering directly from high school, the Office of Admissions suggests that you file your application for admission early in your senior year. Transfer students should apply as early as possible.

### Program Evaluation and Update

College of Technology programs are updated continuously in response to state employment needs, education requirements, availability of resources, and student interests. These factors and many more are closely monitored by the Office of Manpower Studies within the College of Technology. In addition, the college maintains a close liaison with employers and graduates. These findings are the basis for changing programs and courses as well as for establishing new programs and locations.

### Accreditation

Several agencies accredit/approve programs for the various curricula. These include the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, the Federal Aviation Administration, the American Council for Construction Education, and the National Association of Industrial Technologists. Program accreditation is identified on the page that lists the individual plan of study.

### Campus Visits

A visit to the campus and an interview with an admissions counselor will help you determine which educational programs at Purdue are in keeping with your educational background and your future career interests. Such a campus visit is especially appropriate during your junior year in high school.

The Office of Admissions is open each weekday from 8 a.m. to 5 p.m. No appointment is necessary; however, if you would like a tour of the campus, contact the Office of Admissions before your visit.

Students interested in Purdue have a variety of opportunities to visit the campus. Some programs, such as Fall Preview Days and Introducing Purdue, offer more formal agendas that include admissions presentations, school and program sessions, and campus tours. Prospective students and their families also can make individual visits; the Office of Admissions offers multiple visit sessions on a daily

basis, Monday through Friday, including walking tours of campus. Students planning a visit to campus should first contact the Office of Admissions or visit the Admissions Web site — [www.purdue.edu/admissions/undergrad](http://www.purdue.edu/admissions/undergrad) — for further information.

## Core 40 — Indiana Students

Purdue University applauds the state's efforts to strengthen Indiana's high school students' academic preparation and encourages all students to complete the Core 40 requirements. In addition to considering high school courses, Purdue will continue to use other factors such as grade point average, class rank, trends in achievement, honors courses, and test scores when reviewing applications for admissions. We will evaluate applicants on an individual basis and in relation to their requested majors. Program limitations also will continue to be a factor in admission to certain majors.

## Admissions Criteria

Your acceptance as a new student at Purdue is influenced by many factors. Admission to the College of Technology statewide is governed by the same criteria applied to students seeking admission to the West Lafayette campus.

Your admission as a new student into the College of Technology at Purdue is determined by a holistic review that evaluates rank in class, test scores, ability to be successful, grade average in college preparatory subjects, grades in courses related to the degree objective, trends in achievement, completion of minimum high school subject matter expectations (see table), the strength of the college preparatory program, personal attributes, and information provided by your high school counselor. All applicants who have not completed a full year of college work are required to provide SAT or ACT scores (including the writing sections of these tests). Students are encouraged to take either the SAT or ACT in the spring of their junior year. All applicants must graduate high school or have a GED.

Subjects	Minimum Semester Expectations
English	8
Academic math*	6
Laboratory science†	4
Foreign language‡	4

\* Includes algebra, geometry, trigonometry, calculus, etc.

† Includes biology, chemistry, physics, earth/space sciences, physiology/anatomy, etc.

‡ Foreign language expectation for applicants entering in 2008 and beyond.

All College of Technology statewide students are admitted to Purdue University through the West Lafayette campus Office of Admissions. Applications are available at all College of Technology statewide locations. The SAT test is waived for applicants 21 years of age or older.

Because this catalog is used for two to three years, you should refer to [www.purdue.edu/admissions/undergrad](http://www.purdue.edu/admissions/undergrad) for the most current and accurate information about admission to the College of Technology.

## Advance Deposit on Fees

If you are a new student admitted for the fall semester, you must make a nonrefundable advance deposit of \$100. This deposit is to reserve a place for you on the new student roster. Students admitted on or before April 10 must submit the deposit by May 1. Those admitted after April 10 must submit the deposit within three weeks (21 days) after the date of the offer of admission.

If you receive an offer of admission but fail to make the required deposit of \$100 within the time allotted, you automatically forfeit your right to a place on the new student roster.

The \$100 advance deposit will be applied to your first semester fees and is not associated with your University housing application or contract.

## Early Enrollment for Superior Students

If you are a high school student with a highly superior scholastic record during the first three years of high school, you may qualify for admission to Purdue without high school graduation.

The regular entrance requirements are supplemented by certain objective measurements of your qualification to advance to the university level. In this way, the University tries to recognize and provide for individual rates of learning and achievement.

As a nongraduate of high school, you will be considered for admission if you (1) have earned 12 or more credits toward graduation; (2) have a highly superior school record; (3) are strongly recommended by your principal; (4) have the approval of your parents for college entrance without high school graduation; (5) qualify by your performance on prescribed admissions tests; and (6) are approved by the University Admissions Committee.

Purdue cannot guarantee high school diplomas under this arrangement, but it cooperates with whatever arrangement the state or local school system may have for awarding a high school diploma to a successful participant in this plan.

## Admission with Advanced Standing

On the basis of your CEEB Advanced Placement Examination, Purdue advanced credit examination, or high school record, you, as a first-year student, may receive advanced credit and/or advanced placement.

## Transfer Students

If you are transferring from another college or university, you must comply with the following procedures:

1. Submit an official undergraduate application for admission.
2. Forward official transcripts of work done at institutions previously attended (both high school and college). A separate transcript must be provided by each institution, regardless of whether credit is requested.

To be considered for admission, transfer students should apply as soon as possible for the term they wish to enter. To be admitted, students must have the necessary grade point average at the time they apply (and any required college coursework) and meet high school subject matter expectations.

Programs may be closed, without notice, as they are filled. Several computer-related programs have higher grade point average requirements, and programs may be closed, without notice, as they are filled.

Because this catalog is used for two to three years, you should refer to [www.purdue.edu/Admissions/undergrad](http://www.purdue.edu/Admissions/undergrad) for the most current and accurate information about admission to the College of Technology.

## Transfer (or Advanced) Credit

Credit for courses at Purdue University will be given for work of equivalent character and amount successfully completed at another accredited college. Advanced standing will be determined on the basis of these credits. Advanced credit will be regarded as provisional and may be withdrawn by the director of admissions upon recommendation of the head of the department concerned if dependent work is not satisfactorily completed.

Purdue University is a supporter of and a participant in the Indiana Core Transfer Library (CTL), a growing list of courses that will transfer from one public Indiana institution to another. As the Core Transfer Library is developed, information will be available at [www.che.state.in.us](http://www.che.state.in.us).

When credit earned at another college or university is transferred to Purdue and accepted toward advanced standing, the credit is converted into terms of Purdue courses and applied to the program of study. It remains for you, the student, to complete the program, and your schedule of courses each term will be adjusted accordingly. It does not follow that your classification at Purdue or the time necessary for completion of the required work for a degree will be in line with what was expected at the previous institution. Grades are not transferred; only credits in courses are recorded.

Students participating in college-credit courses taught concurrently for high school and college credit during the regular school day by local high school teachers must validate the credit by submitting satisfactory results on the College Board Advanced Placement Examination or the Purdue advanced credit examination, as determined by the subject department. The determination of use of transfer credit in part or



in full to satisfy graduation requirements is the responsibility of the school head or his or her designated representative, in accordance with the regulations of the University faculty.

All credentials are submitted with the understanding that they become the property of Purdue University.

## Early Registration — Day on Campus

The Student Access, Transition and Success Programs and the Office of Admissions invite you to campus for one day of early registration during the summer before your first semester as a new student. This day is set aside for you to meet with your academic counselor and to select your first-semester classes. The University then will proceed with the registration process and mail you a fee statement and your class schedule.

## Student Orientation and Support Programs

Student Access, Transition and Success Programs (SATS) is responsible for the coordination of initiatives that help students prepare for, transition into, and succeed in Purdue University's academically rigorous environment.

SATS, a division of the Office of Enrollment Management, offers several programs to help beginning and transfer students adjust to Purdue. Boiler Gold Rush is for new, beginning students and includes a variety of activities designed to help them make a smooth transition into Purdue. Students who begin their studies at other times of the year also have the opportunity to participate in orientation. Invitations to those different programs are mailed to the students at the appropriate times.

SATS programs include Day on Campus, Learning Communities, Orientation Programs (such as Boiler Gold Rush and Welcome Programs), Parent and Family Programs, the Purdue Opportunity Awards program, the Purdue HelpDesk, and the West Central Indiana regional Twenty-first Century Scholars site. For more information on any of these programs, please visit [www.purdue.edu/sats](http://www.purdue.edu/sats), e-mail [sats@purdue.edu](mailto:sats@purdue.edu), or phone (765) 494-9328. The SATS address is Stewart Center, Room G77; 128 Memorial Mall Drive; West Lafayette, IN 47907.

## Nondegree Students

If you are an adult living near one of Purdue's campuses and you want to take a course at the University without seeking a degree or following a regular plan of study, you can apply for admission as a nondegree student. You must show that you have the background and course prerequisites necessary for the course or courses in which you are interested. The Office of Admissions will advise you on admissions procedures.

## International Students

If you are an applicant from another country, your application and supporting documents will be evaluated by the staff in the Office of International Students and Scholars. You will be admitted on the basis of credentials certifying the completion of preparatory studies comparable to requirements for United States citizens applying at the same entry level. Guidelines for determining admissibility are specified in the "Admissions Criteria" section of this publication. English translations must accompany transcripts and other credentials. You also must submit satisfactory evidence of your ability to comprehend English as shown by a TOEFL (Test of English as a Foreign Language) score of at least 550 (213 computer-based score, 79 Internet-based score). The minimum score for First-Year Engineering applicants is 567 (233 computer-based score, 88 Internet-based score).

You must furnish sufficient evidence of adequate financial support for your studies at Purdue.

The Office of International Students and Scholars will assist you in entering the United States and the University. The office also will provide other services such as orientation programs, immigration advising, and personal and cross-cultural counseling. See the Web site at [www.iss.purdue.edu](http://www.iss.purdue.edu).

## Military Training

Reserve Officers' Training Corps (ROTC) is available for all men and women who are full-time students. You can pursue military courses in conjunction with the academic curriculum and receive academic credits. If you complete the program, you will receive a commission as an officer in the Army, Navy, Marine Corps, or Air Force. You do not incur a commitment until you are accepted into the program and enroll in the third-year course or accept an ROTC scholarship. Scholarships that assist with tuition, incidental fees, and textbooks are available through all four services. A monthly allowance is available for students who sign a contract. Additional information is available in the College of Liberal Arts catalog, or you can contact any of the military departments directly. All ROTC offices are located in the Armory.

## Time of Entrance

Purdue University offers instruction during two semesters and summer session. You can begin most programs of study with any semester or during the summer. The semesters start in August and January, and the summer modules begin in May, June, and July. Students may begin the following programs only at the times stated: flight, nursing, and the Undergraduate Studies Program, fall; the specific veterinary technology program you are interested in will determine when you may begin your studies.

## Proof of Immunization

Indiana state law requires proof of immunization for the following vaccine preventable diseases as condition of enrollment on residential campuses of state universities: measles, mumps, rubella, diphtheria, and tetanus. In addition, international students must provide documentation that they have been tested for tuberculosis after arriving in the United States. Information regarding compliance will be forwarded to all admitted students.

## Admission to Another Purdue Campus

Purdue's educational system provides students access to a full complement of the University's faculty, resources, and academic programs. Whether you're enrolled at Calumet, Fort Wayne, North Central, or West Lafayette, you can pursue a degree from Purdue University and fulfill your career aspirations.

As one of the nation's top research institutions, Purdue is recognized around the world for the quality of its programs and its graduates. When you pursue your goals at a Purdue campus, you'll earn your share of that reputation. You'll enjoy all the challenges as well as the benefits and rewards associated with a preeminent university. Purdue University's quality is available across the state, and the primary goal of each campus is to help each student excel through discovery, learning, and engagement.

For information about what is offered at each Purdue University campus, use the following contact list.

<b>Calumet</b>	<a href="http://www.calumet.purdue.edu">www.calumet.purdue.edu</a> <a href="mailto:adms@calumet.purdue.edu">adms@calumet.purdue.edu</a>
<b>Fort Wayne</b>	<a href="http://www.ipfw.edu">www.ipfw.edu</a> <a href="mailto:ASK@ipfw.edu">ASK@ipfw.edu</a>
<b>North Central</b>	<a href="http://www.pnc.edu">www.pnc.edu</a> <a href="mailto:admissions@pnc.edu">admissions@pnc.edu</a>
<b>West Lafayette</b>	<a href="http://www.purdue.edu">www.purdue.edu</a> <a href="mailto:admissions@purdue.edu">admissions@purdue.edu</a>

There also are Purdue programs at Indiana University-Purdue University Indianapolis. Go to [www.iupui.edu](http://www.iupui.edu) for more information.

## Readmission

Students who are dropped from Purdue University for academic deficiency must be out of the University for at least one semester (not including summer session) and must apply for readmission through the Office of the Dean of Students. There are deadlines for submitting an application with a \$100 fee, and for removing all encumbrances. A student may strengthen his or her application by submitting evidence of successful coursework from another institution. Information about the readmission process is available from the Office of the Dean of Students; Schleman Hall; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; (765) 494-1747.

## 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 disabled or Vietnam era 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 Vietnam era veterans through its affirmative action program.

## Expenses

The cost of attending Purdue University varies, depending on a variety of factors, including where a student chooses to live; travel expenses; food costs; enrollment in a special program, date of entry, the college or school you are enrolled in, etc. Basic minimum costs for the two-semester 2006–07 school year on the West Lafayette campus are shown in the following table. Some academic programs may have additional fees. Contact the department if you have questions.

Full-time students are charged a general service fee, a technology fee, and a repair and rehabilitation fee. The general service fee provides students with access to a variety of services and privileges such as access to the Recreational Sports Center and the Boilermaker Aquatic Center for recreational sports activities. It also allows deep-discount ticket prices for most Convocations-sponsored events and for Intercollegiate Athletics contests with presentation of a student ID card.

With payment of full fees, students have access to the Purdue Student Health Center that covers medical clinical office visits, nutrition consultations, health education services, and a limited

number of sessions for psychological counseling. Additional fees are charged for lab, x-ray, urgent care, physical therapy, and other services.

The technology fee is used to enhance student access to the campus networks, computer laboratories, and electronic access to information and databases. Technology fee funds are used to equip classrooms with computer and video projection equipment.

Beginning in the fall 2006 semester, students who enroll for a new degree-seeking program will be assessed a repair and rehabilitation fee. (The fee is retroactive for students who were enrolled as new degree-seeking students in summer 2006.) This fee is assessed to address maintenance funding for buildings and infrastructure on campus, and funds received from the fee will be dedicated to building and infrastructural needs. The establishment of the fee is a result of growing unfunded needs to address critical building and infrastructural upkeep.

Miscellaneous personal expenses include such items as clothing, transportation, telephone, newspapers and magazines, dry cleaning and laundry, entertainment, etc.

**2006–07 Estimated Costs West Lafayette Campus  
(Fall and Spring Semesters)**

Items	Indiana Resident	Nonresident
Tuition/Fees	\$6,846* †	\$21,016* †
Room/Board	7,140	7,140
Books/Supplies	990	990
Travel	270	420
Miscellaneous	1,650	1,650
<b>Total</b>	<b>\$16,896</b>	<b>\$31,216</b>

\* First-time students enrolled at the West Lafayette campus beginning in the fall 2002 semester and thereafter pay these fees. Undergraduate, graduate, and professional students who were enrolled as degree-seeking students in the spring 2002 semester on the West Lafayette campus may be eligible for a lower fee. To maintain eligibility for a lower fee, students must be continuously enrolled (fall and spring semesters); eligible students will pay a lower fee until the date of attainment of one degree or until the fall 2007 semester, whichever comes first. Beginning in the fall 2006 semester, students who enroll for a new degree-seeking program will be assessed a campus repair and rehabilitation fee. That fee, as approved by the Board of Trustees, is also retroactive for students who enrolled as new degree-seeking students in summer 2006.

† Your budget can vary, depending on your state of residence and the type of housing and academic program you select. Some programs have additional fees: Engineering, \$600; Management, \$936; Flight, individual courses in the program have additional fees that can be reviewed at [www.purdue.edu/bursar](http://www.purdue.edu/bursar) or by contacting the Department of Aviation Technology. International students pay an additional \$50 per semester.

Rates and refund schedules are subject to change without published notice.

## College of Technology Statewide Fees and Tuition

Statewide students pay tuition on a per-credit-hour basis and fees vary depending on the location. Additional fees may include student activity, recreation facilities, and health fees. Activity and other fees are assessed at each location in accordance with the services available. Rates are subject to change without published notice. Contact the specific statewide location for a list of tuition and fees.

## Refunding of Fees and Tuition

Registered students who find it necessary to cancel their registration before the beginning of classes, upon the recommendation of the registrar, will receive a 100 percent refund of all fees and tuition.

### *Non-Title IV Aid*

Students who withdraw during the first six weeks of a semester, with the recommendation of the registrar, will receive a partial refund of the general service

fee and tuition. More specifically, the percentage of refund is determined as follows:

### **Fall or Spring Semester**

1. Withdrawal during the first or second week, 80 percent refund
2. Withdrawal during the third or fourth week, 60 percent refund
3. Withdrawal during the fifth or sixth week, 40 percent refund

No portion of the technology fees, repair and rehabilitation fees, or academic building facilities fee will be refunded once classes begin.

### *Title IV Aid*

Once classes begin, refunds are prorated based on the date of withdrawal from class(es). Refunds are based on a diminishing scale through 60 percent of the semester. Refunds are calculated on all fees and tuition.

### *Summer Modules*

Refunds for summer modules are proportionate on the same basis as semester refunds.

## Financial Aid

Purdue University recognizes that not all students and their parents can afford to finance a college education entirely from their income and assets. To ensure that all students have an opportunity to obtain a college education regardless of their financial circumstances, the University, through the Division of Financial Aid, administers a four-fold program of scholarships, grants, employment opportunities, and loans.

The Purdue University Division of Financial Aid administers federal, state, and University financial assistance programs. These programs require students to have a high school diploma or GED. Information regarding the GED is available through any public high school or any state department of education/public instruction.

Most types of aid are based upon financial need and satisfactory academic progress. To be considered for all types of financial aid, you must submit a Free Application for Federal Student Aid

(FAFSA). This form should be submitted online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) or can be obtained from the Division of Financial Aid; Schleman Hall of Student Services, Room 305; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050.

You should apply early for Purdue University financial aid. Eligible FAFSAs postmarked by March 1 will receive preference in the awarding of aid.

You are welcome to visit the campus to discuss not only family budgeting in order to meet college expenses, but also the types of available aid and the application procedure.

Walk-in counselors are available from 9 a.m. to 5 p.m. on Monday, Tuesday, Wednesday, and Friday, and from 1 to 5 p.m. on Thursday. Phone counselors are available from 8 a.m. to 5 p.m. Monday through Friday at (765) 494-0998. Computer access to your aid status is available at [www.ssinfo.purdue.edu](http://www.ssinfo.purdue.edu).

## Resident Assistants

University Residences has a plan whereby graduate and undergraduate students who are at least 21 years of age by the end of their first semester of employment with University Residences can be hired as a resident assistant (RA). An RA devotes approximately 20 hours each week to

his or her duties in this capacity, with most of the time scheduled during evenings and weekends. Compensation for an RA position includes reduced tuition, room and board, and a small stipend. Applications and additional information for those interested in becoming a resident assistant can be found at [www.housing.purdue.edu](http://www.housing.purdue.edu).

## Living Accommodations

University housing facilities and programs are available to all students based on Purdue's policy of equal opportunity regardless of national origin, race, or religion. It is the University's desire and expectation that all others providing housing or services to Purdue students will do so in a manner consistent with this policy. However, the University does not approve or disapprove specific housing accommodations since it believes that the choice of housing rests with you, the student.

As a Purdue student, you have a variety of choices when it comes to choosing your new home while attending school. You can live in one of 14 University Residences, a fraternity or sorority house, cooperative housing, or in a privately operated facility within the local community.

Apply for housing as soon as possible — whether or not you've made a final decision about enrolling at Purdue. University Residences begins accepting applications from admitted students in September for the following academic year.

Housing assignments generally are made in the order in which applications and \$75 housing deposits are received, after housing assignments are made for certain groups such as Learning Communities and National Merit finalists. Therefore, you should apply for housing as soon as possible to improve your chance of assignment to a residence of your higher preference. You will have the opportunity to indicate your housing preferences and a specific roommate request at the time you receive your housing contract mailing.

Apply online at [www.housing.purdue.edu](http://www.housing.purdue.edu) to expedite your application. If you don't have Internet access, use the paper application included with the housing brochure in your initial admission packet. With your application, you will be required to submit a \$75 deposit. If you do decide to live on campus, this deposit

will be credited to your first housing bill; if you do not, the deposit is refundable per the schedule below.

March 1 is the preferential housing application deadline. Because the University does not guarantee on-campus housing, it is important that students meet this deadline, although applying earlier is recommended. Students who apply for housing after the March 1 deadline will be assigned to a residence if space is available. First-year students are not required to live on campus.

Students who apply for housing by March 1 receive a housing contract mailing by April 1, which will be due to be returned by mid-April. When you receive your housing contract mailing, you will be prompted to fill out an online preference form, which will be used to assign your residence and match you with a compatible roommate. If you want to live with a friend, each of you must rank your residence preferences the same and request each other as a roommate.

New students who notify University Residences in writing of their choice to cancel their housing application will receive a refund of the housing deposit as follows:

### **Fall semester or summer session, cancellation received:**

- Before May 1, \$75 refund
- Between May 1 and May 31, \$25 refund
- On or after June 1, no refund

### **Spring semester, cancellation received:**

- Before December 1, \$25 refund
- On or after December 1, no refund

The Office of the Dean of Students offers assistance to students seeking off-campus housing. After being admitted, students should contact the Office of the Dean of Students as early as possible to begin their search for off-campus housing: visit [www.purdue.edu/odos](http://www.purdue.edu/odos), e-mail [offcampushousing@purdue.edu](mailto:offcampushousing@purdue.edu), or call (765) 494-7663.

## University Residences for Undergraduate Men and Women

University Residences provides accommodations for approximately 11,100 single undergraduate men and women.

The all-male residences include Cary Quadrangle, providing accommodations for 1,166 students, and Tarkington and Wiley Halls, each providing space for about 700 students.

Six University Residences — Owen, McCutcheon, Harrison, Shreve, Earhart, and Hillenbrand halls — house approximately 800 students each, and Meredith Hall accommodates 620 students. These are coeducational units with male and female students assigned to separate areas of each building.

Duhme, Shealy, Wood, Warren, and Vawter halls comprise the all-women's residences and are referred to as Windsor Halls. Windsor Halls provide accommodations for 595 students.

All residences contain generous lounge space, recreation areas, kitchenettes, study spaces, and post office facilities.

As a student, you may choose from three plans consisting of 10, 15, or 20 meal swipes a week, as suits your lifestyle. University Residences offers students who are sophomore 3 and above the Black Meal Plan, consisting of a block of 210 meals, and the Gold Meal Plan, consisting of 300 meals. With these plans, you may use your meal swipes as often as you wish. All meal plans include Dining Dollars, which may be used to buy additional food items at University Residences' Dining Services retail operations, such as grills and mini-marts. You may eat at any University Residences' Dining Services facility by using your University ID card.

Computer labs are available in each University Residences hall. If you bring a personal computer, you may use the Residences' optional Ethernet connections or data-over-voice service to access the University computing network directly from your room.

Room and board rates in 2006–07 vary from \$5,528 to \$8,624, depending on your chosen meal plan option, residence, and room size.

Approximately 700 spaces in Hawkins Hall are reserved for assignment to older undergraduate students. Hawkins Hall residents are not required to purchase a meal plan. Accommodations in Hawkins Hall are on a room-only basis. The cost for a room in 2006–07 ranges from

\$320 to \$585 a month depending on the type of room selected; that includes local telephone service with voice mail and call waiting.

More than 1,000 spaces for single undergraduate students are available in Hilltop Apartments. The apartments house two, three, or four students and are available for both single male and female students. All normal policies and regulations of University Residences apply to the apartments. Students living in the apartments may choose a meal plan that allows access to any University Residences Dining Services facility, or they may choose a non-board option. The room and board rate for 2006–07 in the apartments ranges from \$6,172 to \$9,466 a year.

(Rates quoted are subject to change as approved by the Board of Trustees and undoubtedly will be somewhat higher during the 2007–08 period of this publication.)

Visit [www.housing.purdue.edu](http://www.housing.purdue.edu) for additional information.

## Accommodations for Married Students/Families

At Purdue Village, there are 1,000 University Residences-operated apartments located within a one-mile walking distance of the main campus. The apartments are unfurnished and equipped with a stove and refrigerator. There are one-bedroom and two-bedroom apartments, with the two-bedroom apartments having washers and dryers.

One-bedroom apartment costs range from \$520 to \$535 a month. Two-bedroom units range from \$640 to \$655 a month. Your rent payment covers all utilities, including local telephone service and Boiler TV (cable). These rates are effective during the 2006–07 academic year and are subject to change as approved by the Board of Trustees.

Each apartment is equipped with a connection for the campus cable TV system as well as for the campus computing network. The apartments are not air-conditioned, but tenants may bring or purchase their own air-conditioning unit as long as it meets specified criteria, has compatible voltage ratings, and the apartment's maintenance staff does the installation.

For more information on Purdue Village, visit [www.housing.purdue.edu](http://www.housing.purdue.edu), call (800) 440-2140, or fax (800) 440-2141.

## Cooperatives

Cooperative houses also provide housing for students. These houses are large residences that are owned and operated by 20 to 50 students. Seven women's houses and five men's houses have been recognized officially by the Office of the Dean of Students, and each house has a live-out faculty or staff advisor.

Students in cooperative houses significantly decrease their housing costs by contributing three to four hours of house duties a week. Residents of cooperatives pay an average of \$3,000 per academic year for room and board. New members are selected by current members through a rush process each January.

To obtain information about becoming a cooperative member, contact the Office of the Dean of Students; Schleman Hall, Room 250; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; or call (765) 494-1231. Students are expected to complete and return application information by February 1 or earlier for membership the following fall semester.

Additional information is available at [www.purduecooperatives.org](http://www.purduecooperatives.org).

## Information Technology

Information Technology at Purdue, which is known by the acronym "ITaP" (pronounced EYE-tap), is responsible for centralized computing and telecommunications services for faculty, staff, and students on the West Lafayette campus.

Computing services range from the very visible computing laboratories located in more than 60 locations throughout campus, to the unseen but essential enterprise applications that facilitate the business of the University. The ITaP staff members install, maintain, operate, and repair computer equipment, and provide services including career accounts, e-mail, calendaring, directories, and database administration.

In addition to the instructional computer laboratories, services for students include:

1. The WebCT course management system.
2. The Purdue Mobile Learning Initiative, which enables students to purchase laptop computers with on-campus technical support and repair.

## Fraternities and Sororities

Purdue has 46 fraternities and 24 sororities. Most members live in chapter houses, and membership is by invitation.

Sororities provide an opportunity in the fall for interested women students to join a chapter. Yearly costs for sororities range from \$3,300 to \$4,380. The average number of women living in a sorority is 88.

In the fall, the Interfraternity Council provides recruitment information through which interested men can become acquainted with the fraternity system. Open recruitment is conducted throughout the academic year. The average number of men belonging to a fraternity is 72, and costs range from \$2,000 to \$3,500 a semester.

For additional information, contact the Office of the Dean of Students; Purdue University; Schleman Hall, Room 250; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; or call (765) 494-1232. Online information is available at [www.purdue.edu/greek](http://www.purdue.edu/greek).

3. The Digital Learning Collaboratory, a center for creating multimedia content including digital portfolios, Web pages, and digital video. The center is operated jointly with the Purdue University Libraries.
4. The Adaptive Programs lab for those with special needs.
5. Web-based access to many software applications, Software Remote. (In 2006, *EdTech: Focus on Higher Education* magazine gave Software Remote an IT innovation award.)
6. Free anti-virus software and computer security resources through SecurePurdue.
7. Significant discounts on commonly used software programs, such as Microsoft Office and Macromedia Studio.

Purdue is one of the few universities to offer high-performance computing capability to undergraduates, too. A Linux-based computer cluster in the Digital Learning Collaboratory is available for students to perform animation rendering, modeling, and other computational intensive assignments.



Also supporting research at Purdue is the Envision Center for Data Perceptualization, which is one of the largest scientific visualization facilities found at any university. The Envision Center utilizes a blend of computer science, engineering, perception, technology, and art to process and display information through the use of computer graphics. Students can use the facility to take visualization-related courses or to take collaborative courses with students from other universities.

Telecommunications services provided by ITaP range from basic phone services for campus offices and residences to wireless connectivity in areas throughout the campus. ITaP supports the infrastructure that links campus

buildings by optical fiber and provides commodity Internet to residences and offices. ITaP also manages Purdue's participation in several research networks, including the Internet 2, the TeraGrid, and the Northwest Indiana Computational Grid.

To help University personnel stay up to date on the rapidly changing information technology field, courses and one-on-one consulting are available on every aspect of computing and telecommunications.

For additional information, please consult [www.itap.purdue.edu](http://www.itap.purdue.edu) or call (765) 494-4000. The address for the ITaP Customer Service Center is Stewart Center, Room G068; 128 Memorial Mall; West Lafayette, IN 47907-2034.

## Libraries

The collections and services of the Purdue University Libraries are an important resource for your educational experience.

The University Libraries system on the West Lafayette campus includes 13 subject-oriented libraries and the Hicks Undergraduate Library. The Libraries provide a print collection of nearly 2,500,000 volumes and more than 3,100,000 microforms of older scholarly materials in addition to many current scientific and technical reports. Approximately 21,000 serial titles are received, including periodicals and serial publications of societies, institutions, and the federal and state governments. Federal government publications and patents are received on a depository basis. The Libraries also offer more than 7,000 electronic information sources. The Libraries Web site at [www.lib.purdue.edu](http://www.lib.purdue.edu) is the gateway to information and services.

Local library resources are supplemented by the four million items of research materials held by the Center for Research Libraries in Chicago, including 7,000 rarely held serial titles. Through Purdue's membership in the center, faculty and graduate students are assured of fast access to this material through the Interlibrary Loan Office in the Humanities, Social Science, and Education (HSSE) Library in Stewart Center.

The library collections and services of the Big Ten libraries, the University of Chicago, Ball State University, and Indiana State University also are available to Purdue students

and faculty under cooperative agreements. Individuals who wish to use these facilities are encouraged to contact Circulation Services in the HSSE Library.

The Digital Learning Collaboratory (DLC) is located in the Undergraduate Library. It is a joint initiative of the Purdue Libraries and Information Technology at Purdue. The DLC supports student learning through access to state-of-the-art hardware and software for creating multimedia projects in individual, group work, and instructional settings. It facilitates the integration of information and technology literacy into the undergraduate curriculum.

The Aviation Technology Library located at the Purdue University Airport contains flight and maintenance technology materials as well as a collection of historical materials. Students and faculty in the other departments of the College of Technology are served by other college and departmental libraries in relevant subject areas. The Siegesmund Engineering Library, located in the A. A. Potter Engineering Center, is a principal resource for many of the college's programs. Its extensive collections of books, journals, microforms, technical reports, standards, patents, and trademarks cover most areas of engineering and technology. Access to electronic resources also is provided. Reference and instruction services are available to assist users in retrieving information.

## Study Abroad

The Office of Programs for Study Abroad is dedicated to internationalizing Purdue by helping as many students as possible have overseas experiences that enrich lives, enhance academic experiences, and increase career potential. The office helps students overcome academic, financial, or personal concerns that might prevent them from going abroad, and is especially devoted to removing obstacles for first-time travelers.

Purdue offers more than 200 study abroad and internship programs in dozens of countries, lasting from a week to a year, for all majors. Most programs do not require foreign language skills. Program costs vary, but many are comparable to the cost of studying at Purdue (with the exception of the travel expense). Participants

earn Purdue grades and credits, so those who study abroad can graduate in the normal length of time. Most of the financial aid that covers Purdue expenses can also be applied to study abroad, and more financial aid specifically for study abroad has been available in recent years.

Students who have taken part in study abroad often describe their experiences as “life changing,” “eye opening,” and “the best choice I ever made.”

Students should begin their international exploration either online at [www.studyabroad.purdue.edu](http://www.studyabroad.purdue.edu), by calling (765) 494-2383, or by contacting The Office of Programs for Study Abroad; Young Hall, Room 105; 302 Wood Street; West Lafayette, IN 47907-2108.

## Student Services

### Counseling

Counseling is done in the various departments within the College of Technology. After being admitted, you will be assigned to an academic advisor who will work closely with you throughout your years on campus. The advisor will help you select courses and provide information about employment opportunities.

The counseling offices for the different College of Technology programs are located within the various departments. Aviation Technology advisors are located in the aviation facilities at the Purdue University Airport. Organizational Leadership advisors are located in Young Hall. All other advising offices are located in Knoy Hall.

College of Technology statewide advisors are located within administrative services at each location.

Mature and qualified faculty and staff, graduate students, and older undergraduate students are employed on the University Residences counseling staffs and live in the halls to assist students with personal and scholastic problems.

The Office of the Dean of Students is staffed by professionally trained counselors who provide personal, educational, and career counseling. They can, for example, offer assistance or refer you to specialized help in such areas as

vocational choice, campus activities, scholastic concerns, multicultural programs, assistance for students with disabilities, home and community relationships, and coping strategies.

Other campus services for students include the Counseling and Guidance Center, Counseling and Psychological Services, Financial Advising Service, International Students and Scholars, Learning Center, Marriage and Family Therapy Center, Steer Audiology and Speech-Language Center, Student Health Center, and Writing Lab.

### Services for Students with Disabilities

Services for students with disabilities (physical, mental, and learning disabilities) are provided through the Adaptive Programs division of the Office of the Dean of Students. Services vary according to the needs of students. They include interpreters, readers, note-taking assistance, accessible class scheduling, parking permits, and help working with professors. For further information, contact the Office of the Dean of Students. The Web site is [www.purdue.edu/odos/adpro](http://www.purdue.edu/odos/adpro). The general office number is (765) 494-1747, and the TDD number for people with hearing or speech impairments is (765) 494-1247.

## College of Education Academic Services

The College of Education's Academic Services Unit offers several types of assistance important to students enrolled in teacher education programs. At Purdue, students in teacher education programs are academic majors in the colleges of Agriculture, Education, Consumer and Family Sciences, Liberal Arts, Science, and Technology. The College of Education offers majors in the fields of elementary education, social studies education, and special education. The Academic Services Unit within the College of Education assists all students in teacher education, regardless of the college in which their major is housed, by providing the following specialized services: admission and retention, field experiences, and licensure.

**The Office of Professional Preparation and Licensure** processes students' applications for all teacher education programs, provides information about programs available at Purdue, and monitors students' progress for retention within programs. As a student, you should be aware that admission to the Purdue University Teacher Education Programs is a separate and distinct step beyond admission to the University and that the standards for admission to, and retention in, teacher preparation programs are higher than those required to remain in good standing within the University. This office also provides explanation and interpretation of teacher licensing requirements. Students who have completed teacher education programs are evaluated and recommended for licenses. This office maintains licensing records and provides accreditation support.

See [www.education.purdue.edu/oppl](http://www.education.purdue.edu/oppl) for more information.

**The Office of Field Experiences** coordinates all placements in area schools in order to provide students with the early field experiences and student teaching experiences required in all teacher education programs.

See [www.education.purdue.edu/fieldexp](http://www.education.purdue.edu/fieldexp) for more information.

## Center for Career Opportunities

The staff of the Center for Career Opportunities (CCO) will assist you with your career decision-making and job search processes. Career counseling by appointment and resume reviews on a drop-in basis are available to students who visit the CCO at Stewart Center, Room 194, between 8 a.m. and 5 p.m. Monday through Friday. A wide variety of other career development and job search resources are found at [www.cco.purdue.edu](http://www.cco.purdue.edu).

Purdue University students and graduates interested in having their resume referred to prospective employers and participating in interviews with employers for internships and post-graduate employment are encouraged to register with CCO Express at [www.cco.purdue.edu/student/CCOExpress.shtml](http://www.cco.purdue.edu/student/CCOExpress.shtml). Based on the number of employers recruiting at the Center for Career Opportunities, the interviewing program ranks among the three or four largest within university career centers in the United States each year.

## The Technology Resources Center

The Technology Resources Center (TRC) provides curricular materials, instructional resources, and technology support and service for educators. It assists students, pre-service teachers, faculty, and staff to ensure that they possess the necessary skills to use technology in support of their professional goals. This includes a 24-workstation computing facility, software and equipment checkout, and an e-Portfolio development site. The TRC also serves as a textbook review site for annual state textbook adoption services. See [www.education.purdue.edu/trc](http://www.education.purdue.edu/trc).

## For Further Information

**General Information.** The *General Information* bulletin will give you further details about admission, fees, expenses, financial aid, registration, living accommodations, student activities, student services, requirements for graduation, transfer students, ROTC, and other areas of student interest.

**University Regulations.** The *University Regulations* bulletin will provide details about academic, conduct, and student organization policies and procedures. You can access the Web site at [www.purdue.edu/univregs](http://www.purdue.edu/univregs), or request copies from Purdue Marketing Communications; South Campus Courts, Building D; 507 Harrison Street; West Lafayette, IN 47907-2025; (765) 494-2034.

**Graduation Rates.** Graduation rates for the West Lafayette campus are available by contacting the Office of Enrollment Management, Analysis, and Reporting; Schleman Hall, 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; (765) 494-0292; [enrollmentmanagement@purdue.edu](mailto:enrollmentmanagement@purdue.edu). These rates are calculated and made available as required by the Student Right-to-Know and Campus Security Act.

**Alcohol Policy.** Purdue students are subject to Indiana law, which prohibits consumption or possession of alcoholic beverages by anyone under 21 years of age. The University does not permit alcohol to be brought onto Purdue property, with certain exceptions, by any person regardless of age. Fraternity and sorority houses and student cooperative housing units are considered off-campus housing and are permitted to have alcoholic beverages, but they must observe specific University guidelines and state law.

The University does not have the responsibility or the authority to control off-campus student drinking, but it does attempt to give students the opportunity to make informed and mature decisions about alcohol use. A variety of educational and counseling programs are offered to help students deal with all aspects of alcohol and drug use, from peer pressure to dependency.

**Safety.** The University strives to provide a safe and secure environment for students, staff, and visitors. The University distributes an Annual Security Report containing campus crime statistics and information relating to campus safety and security policies and programs. The report is available on the Web at [www.purdue.edu/police](http://www.purdue.edu/police). A paper copy may be requested by calling (765) 494-8221 or contacting the Purdue University Police Department, Terry House, 205 S. Intramural Drive, Purdue University, West Lafayette, IN 47907-1971.

**Intellectual Property.** All students are subject to the University policy on intellectual property, Executive Memorandum B-10, which can be found at [www.purdue.edu/policies/pages/teach\\_res\\_outreach/b\\_10.html](http://www.purdue.edu/policies/pages/teach_res_outreach/b_10.html).

## College of Technology Degree and Specialized Service Programs

Science and technology range from extremely simple to highly complex and abstract activities — at one extreme, the “professionals”; at the other, the mechanics, drafters, and service personnel. Within this broad spectrum, the educational backgrounds include doctoral degrees, master’s degrees, bachelor’s degrees, and associate degrees at the university level as well as certificates and diplomas from other post-high-school educational and training institutions.

### Doctorate (Ph.D.) Degree

Ph.D. advisors, working interactively with each degree applicant, will consider all prior graduate coursework accepted for transfer into the program while developing the plan of study.

In addition to a technology focus, each plan of study must include a solid discovery foundation sequence of cognate research courses to add depth and a second discipline’s perspective to the student’s research and/or professional goal-related field. A dissertation will serve as both a culminating synthesis experience and as a visible demonstration of performance.

### Master of Science (M.S.) Degree

Building on a tradition of excellence in graduate education, the College of Technology offers graduate instruction leading to master of science and doctoral degrees. Emphases encompassing each of the college’s departments and specializations are available to meet scholarly, professional, and personal goals. Graduate study options are available within all College of Technology disciplines.

The thesis master of science degree program provides educational opportunities in adult education, instructional development, curriculum design, and education administration, with a major concentration in technology or technology education.

The non-thesis, directed project master’s degree program provides an opportunity for individualized professional development studies in technology, engineering technology, and

technology education. The program prepares graduates for leadership positions in industry and education.

The college also offers an innovative cohort-based Weekend Master’s Degree Program. This program has the same credit hour and core course requirements as the conventional master’s program, but the majority of instruction is delivered via distance education. Participating students take a predetermined set of courses over a specific time frame by attending special weekend sessions three times each semester.

Graduate students take general and professional courses in technology as well as courses from other schools and colleges at Purdue University, including the College of Engineering, College of Education, and Krannert School of Management. The programs offer the opportunity to pursue advanced work in the various disciplines offered by departments in the College of Technology. These include:

- Aviation Technology
- Building Construction Management Technology
- Computer and Information Technology
- Computer Graphics Technology
- Electrical Engineering Technology
- Industrial Technology
- Manufacturing Engineering Technology
- Mechanical Engineering Technology
- Organizational Leadership and Supervision
- Technology Education

For additional details about the College of Technology’s graduate programs, contact the Graduate Office in the College of Technology or consult Purdue University’s Graduate School Web site at [www.gradschool.purdue.edu](http://www.gradschool.purdue.edu).

### Bachelor of Science (B.S.) Degree

The bachelor of science (B.S.) degree offered by Purdue’s College of Technology is awarded after four years of university-level study in an applied scientific field. A B.S. degree in technology prepares graduates for entry-level

positions such as managers, supervisors, engineering technologists, administrators, graphics specialists, analysts, system developers, production planners, and manufacturing specialists. Students possess excellent problem-solving abilities, highly developed communications skills, exceptional organizational skills, and the ability to understand complex systems. Eleven B.S. options are available to qualified students:

- Aviation Technology
- Building Construction Management Technology
- Computer and Information Technology
- Computer Graphics Technology
- Electrical Engineering Technology
- Industrial Distribution
- Industrial Technology
- Manufacturing Engineering Technology
- Mechanical Engineering Technology
- Organizational Leadership and Supervision
- Technology Education

## Associate of Science (A.S.) Degree

The associate of science (A.S.) degree offered by Purdue's College of Technology is awarded after two years of university-level study in an applied scientific field. Graduates of such programs are often called technicians. Ten two-year programs leading to an A.S. degree are offered at the West Lafayette campus. The programs are:

- Aeronautical Technology
- Aviation Flight Technology
- Aviation Management
- Building Construction Management Technology
- Computer Graphics Technology
- Electrical Engineering Technology
- Industrial Technology
- Manufacturing Engineering Technology
- Mechanical Engineering Technology
- Organizational Leadership and Supervision

## Admissions Requirements

Applicants for admission to the two-year, add-on programs leading to a B.S. degree in aviation, computer graphics, construction, electrical, and mechanical technologies must have earned an A.S. degree or equivalent in one of these fields. Additionally, students in computer graphics technology must be eligible for admission to the professional level of the curriculum. Transfer students will be admitted to Purdue University according to standard procedures.

Students transferring from other institutions must complete at least 32 semester credit hours of coursework in residence in the third and fourth year of the B.S. degree program

## Specialized Service Programs

The College of Technology cooperates with individual industries or communities in the development and operation of specialized training programs. Such programs normally operate on a regular fee basis but frequently are organized at the request of a particular industry on a contract basis.

Since such specialized programs are usually restricted to a single location and serve a special need, they are not described in this general catalog and may differ to some extent in entrance requirements, fees, advanced standing provision, and other details from the general fields of study described in this catalog. Included in these specialized programs are industrial programs in cooperation with local industry, primarily designed for upgrading technical employees.

Inquiries should be sent to the director of the Continuing Education Administration or the dean of the College of Technology on the West Lafayette campus. At other College of Technology statewide locations, inquiries should be sent to the director of the respective location.

## Abbreviations

The following abbreviations of subject fields are used in the “Graduation Requirements” and “Plans of Study” sections of this catalog. Alphabetization is according to abbreviation.

**A&AE**—Aeronautics and Astronautics  
**AGEC**—Agricultural Economics  
**AT**—Aviation Technology  
**BCM**—Building Construction Management  
**CGT**—Computer Graphics Technology  
**CHM**—Chemistry  
**CIMT**—Computer Integrated Manufacturing Technology  
**CIT**—Computer and Information Technology  
**C&IT**—Computer and Information Technology  
**COM**—Communication  
**C S**—Computer Sciences  
**EAS**—Earth and Atmospheric Sciences  
**ECET**—Electrical and Computer Engineering Technology  
**ECON**—Economics  
**EDCI**—Educational Curriculum and Instruction  
**EDPS**—Psycho-Educational Studies  
**EDST**—Educational Leadership and Cultural Foundations  
**ENGL**—English  
**ENTM**—Entomology

**IET**—Industrial Engineering Technology  
**IT**—Industrial Technology  
**MA**—Mathematics  
**MET**—Mechanical Engineering Technology  
**MFET**—Manufacturing Engineering Technology (formerly CIMT)\*  
**MGMT**—Management  
**OBHR**—Organizational Behavior and Human Resource Management  
**OLS**—Organizational Leadership and Supervision  
**PHIL**—Philosophy  
**PHYS**—Physics  
**PSY**—Psychology  
**SOC**—Sociology  
**STAT**—Statistics

## Definitions

**Free Elective:** any course for which the University gives academic credit. Plan may specify area in which elective must be taken rather than “free.”

**Technical Elective:** course related to student’s career goals.

**Selective:** specific courses in a discipline approved by the individual department.

**Sequence:** two or more courses in the same discipline, taken in sequence.

\* CIMT will change to MFET effective summer 2007.

## Plans of Study

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Typical degree programs for students in the College of Technology are described under the departments on the following pages. Plans of study are listed for students in two-year programs leading to the associate of science (A.S.) degree, four-year programs leading

to the bachelor of science (B.S.) degree, and certificate programs.

In this section of the catalog, figures within parentheses, e.g., (3), are credit hours unless designated otherwise.

### Department of Aviation Technology

The aviation and aerospace industries offer a multitude of dynamic and exciting careers for persons who have the required technical education. The Department of Aviation Technology provides students with the knowledge and skills required for successful and rewarding careers in aviation.

Career-oriented programs are available in aviation administration, flight, and aeronautical technology areas of concentration. Students in each of these curricula begin their studies in an associate degree program and may continue work in a related specialty area that leads to the B.S. degree.

The B.S. program in aviation technology is open to students who have completed one of the aviation technology associate degree programs or who have equivalent technical education from another college or university. Because the aviation and aerospace industries are becoming increasingly complex and specialized, the aviation technology B.S. degree program combines in-depth instruction in technical specialties with a broad spectrum of interdisciplinary courses.

The baccalaureate degree programs in aeronautical technology, aviation management, and flight technology are accredited by the Aviation Accreditation Board International.

During the B.S. program, students can prepare themselves for many aviation and aviation-related careers. The curriculum is flexible and allows the student to select an existing study option or build a plan of study in keeping with his or her career objectives. Ample time is provided for in-depth training in aviation core courses. In addition, 9-15 credit hours of specialty electives, much like a minor, can be devoted to aviation or non-aviation courses in an area selected by the student. Individualized plans of study and specialized sequences of courses must be approved by the Aviation Technology Curriculum Subcommittee.

#### *College of Technology Statewide*

The College of Technology statewide delivers programs in aviation technology at the Indianapolis Aviation Center located at the Indianapolis International Airport.

### Aeronautical Technology (A.S. and B.S.)

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Aeronautical technologists are responsible for the development of manufacturing and repair strategies for modern aerospace vehicles. They help design, test, and build structures for new aircraft. They also are responsible for the manufacturer's support of production aircraft. This includes field modification, product support, and accident investigation. The aeronautical technology program is an academically-oriented

plan of study that includes laboratory classes in aircraft design, maintenance, and manufacturing. Course concentrations include fundamentals of aircraft science, electrical systems, aircraft materials and production processes, aircraft propulsion systems, and aircraft construction. In addition, students take courses such as algebra and trigonometry, calculus, physics, and English composition.



## Aviation Technology (A.S.)

Credit Hours Required for Associate Degree: 64

### Freshman Year

#### First Semester

- (2) **AT 100** (Introduction to Aviation Technology)
- (3) **AT 106** (Basic Aircraft Science)
- (4) **AT 108** (Aircraft Materials)
- (5) **MA 159** (Precalculus)
- (3) Computer graphics selective

(17)

#### Second Semester

- (3) **AT 105** (Basic Aircraft Electrical Theory)
- (3) **AT 166** (Aircraft Materials II)
- (4) **AT 262** (Basic Aircraft Powerplant Technology)
- (3) English Composition selective
- (3) **MA 221** (Calculus for Technology I)

(16)

### Sophomore Year

#### Third Semester

- (3) **AT 207** (Introduction to Aircraft Systems)
- (4) **AT 265** (Aircraft Electrical Systems)
- (3) **AT 267** (Fixed and Rotary Wing Assemblies)
- (5) **PHYS 218** (General Physics)

(15)

#### Fourth Semester

- (3) **AT 271, 272, or 278**
  - (3) **AT 271, 272, or 278**
  - (3) **COM 114** (Fundamentals of Speech Communication)
  - (3) **PSY 120** (Elementary Psychology)
  - (3-4) AT selective
- (15-16)

## Aviation Technology: Aeronautical Option (B.S.)

Credit Hours Required for Bachelor's Degree: 128

### Junior Year

#### Fifth Semester

- (3) **AT 271, 272, or 278**
- (4) **AT 275** (Avionics Systems for Aircraft)
- (3) **AT 300** (Global Aviation Systems)
- (4) **AT 307** (Advanced Aircraft Systems)
- (3) **ECON 210** (Principles of Economics)

(17)

#### Sixth Semester

- (4) **AT 308** (Aircraft Materials Processes)
  - (3) **AT 363** (Fundamentals of Powerplant Systems)
  - (3) **AT 370** (Advanced Aircraft Powerplants)
  - (3) **AT 372** (Aircraft Maintenance Practices)
  - (3) **AT 376** (Aircraft Gas Turbine Engine Technology I)
  - (-) Globalization requirement\*
- (16)

### Senior Year

#### Seventh Semester

- (4) **AT 375** (Aircraft Electronics)
- (3) **AT 402** (Aircraft Airworthiness Assurance)
- (1) **AT 403** (Airman Certification Procedures)
- (3) **AT 476** (Aircraft Gas Turbine Engine Technology II)
- (3) Specialty selective
- (1) Free elective

(15)

#### Eighth Semester

- (1) **AT 400** (Aviation Professional Issues)
- (3) Humanities elective
- (3) Management or OLS selective
- (6) Specialty selectives
- (3) Technical communication selective

(16)

\* A student has seven options from which to choose in meeting the globalization requirement: 1.) study abroad, 2.) complete an internship outside the United States, 3.) participate in an aviation technology-sponsored travel abroad trip, 4.) having lived/traveled outside the United States for at least 90 days since the student's 12th birthday, 5.) complete certain campus classes, 6.) complete 12 credit hours in one foreign language, or 7.) participate in an approved international research program that involves at least five days of international travel.

## Aviation Management (A.S. and B.S.)

The aviation management program is designed for students who are seeking careers in air traffic control, airport management, or airline operations. Students in this curriculum study aircraft systems, principles of flight, and basic aircraft science. They also take courses in air traffic control, aviation law, airport management, and air transportation, in addition to a number of general education courses.

Graduates of the first two years of the aviation management program receive an associate of science degree and are qualified to assist in the operation of airports and airport service industries. This includes aircraft sales, passenger service, or airport operations.

## Aviation Management Technology (A.S.)

### Credit Hours Required for Associate Degree: 64

#### First Semester

- (2) **AT 100** (Introduction to Aviation Technology)
  - (3) **AT 106** (Basic Aircraft Science)
  - (3) **COM 114** (Fundamentals of Speech Communication)
  - (5) **MA 159** (Precalculus)
  - (4) **ENGL 106** (English Composition) or  
(3) English selective
- (16–17)

#### Second Semester

- (4) **AT 144** (Fundamentals of Flight Lectures)
- (3) **AT 147** (Aircraft Propulsion Systems)
- (3) **PSY 120** (Elementary Psychology)
- (3) **POL 101** (American Government and Politics)
- (3) **MA 221/223** (Calculus)

(16)

## Sophomore Year

#### Third Semester

- (3) **AT 247** (Aircraft Operating Systems)
- (3) **AT 258** (Air Transportation)
- (3) **AT 285** (ATC Procedures and Weather)
- (3) **ECON 251** (Microeconomics)
- (3) **OLS 252** (Human Behavior in Organizations)

(15)

#### Fourth Semester

- (3) **AT 233** (Ethics and Aviation)
- (3) **ECON 252** (Macroeconomics)
- (3) **MGMT 200** (Introductory Accounting)
- (3) **OLS 274** (Elements of Supervision)
- (3) **PHYS 214** (The Nature of Physics)
- (2) Free elective

(17)

Upon completion of the first two years of this program, an associate of science degree in aviation management is awarded.

Graduates of the A.S. degree program in aviation management who wish to pursue a bachelor of science degree will receive additional specialized instruction in accounting, supervision, and economics.

The administration option is designed for students seeking a career in airline operations, airport administration, or aviation marketing. Students choosing this option continue their studies in accounting, industrial organization, marketing, business law, and aviation administration. They also take courses in business writing and communication.

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## Aviation Management Technology (B.S.)

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### Credit Hours Required for Bachelor's Degree: 128

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#### Junior Year

##### *Fifth Semester*

- (3) **AT 300** (Aviation Infrastructure)
  - (3) **AT 338** (Airline Operations)
  - (3) **AT 359** (Airport Management)
  - (3) **AT 369** (Air Traffic Control)
  - (3) **MGMT 201** (Management Accounting I)
  - (3) English selective
- 
- (18)

##### *Sixth Semester*

- (3) **AT 475** (Aviation Law)
  - (3) AT selective
  - (3) **OLS 375** (Training for Supervisors)
  - (3) **STAT 301T** (Elementary Statistical Methods)
  - (3) Free elective
- 
- (15)

#### Senior Year

##### *Seventh Semester*

- (1) **AT 400** (Aviation Professional Issues)
  - (3) **AT 481** (Aviation Safety Problems)
  - (3) **MGMT 323** (Introduction to Marketing Analysis)
  - (3) **MGMT 455** (Legal Background for Business I)
  - (6) AT selective
- 
- (16)

##### *Eighth Semester*

- (3) **COM 325** (Interviewing: Principles and Practice)
  - (3) AT capstone selective
  - (6) AT selectives
  - (3) Technical communication selective
  - (-) Globalization requirement\*
- 
- (15)

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## Aviation Flight Technology (A.S.)

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General aviation pilots are responsible for the safe, efficient operation of their aircraft. Their responsibilities include flight planning, evaluating weather conditions, performing pre-flight systems checks, navigating, and providing for passenger needs, in addition to flying the aircraft. They may be involved in flying as a flight instructor, as a charter or air taxi pilot, or as an executive pilot for a corporation. The aviation flight technology curriculum is a progression of study directed toward training a student in primary, advanced, and instrument flight. This curriculum is integrated with two years of college general studies. A special fee is associated with each flight and ground pilot trainer course. At the conclusion of the program, students receive the A.S. degree.

Before final acceptance, applicants for this program must present evidence that they have satisfactorily completed a Federal Aviation Administration (FAA) first-class or second-class medical examination. Students who are contemplating continuing in the professional flight program are urged to obtain a first-class medical certificate.

Enrollment for this program is limited. Completed applications for freshman entry must be received by November 15 to be eligible for consideration for the following fall classes. Transfer applications for those at the junior-year level must be received by the first of June preceding the fall semester, during which an upper-division student would begin.

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\* A student has seven options from which to choose in meeting the globalization requirement: 1.) study abroad, 2.) complete an internship outside the United States, 3.) participate in an aviation technology-sponsored travel abroad trip, 4.) having lived/traveled outside the United States for at least 90 days since the student's 12th birthday, 5.) complete certain campus classes, 6.) complete 12 credit hours in one foreign language, or 7.) participate in an approved international research program that involves at least five days of international travel.

## Aviation Flight Technology (A.S.)

Credit Hours Required for Associate Degree: 64

### Freshman Year

#### First Semester

- (2) **AT 100** (Introduction to Aviation Technology)
- (4) **AT 144** (Fundamentals of Flight Lectures)
- (2) **AT 145** (Private Pilot Flight)
- (4) English composition selective
- (5) **MA 159** (Precalculus)

(17)

#### Second Semester

- (3) **AT 147** (Aircraft Propulsion Systems)
- (2) **AT 231** (Human Factors for Flight)
- (2) **AT 243** (Commercial Flight I)
- (3) **EAS 221** (Survey of Atmospheric Science)
- (3) Calculus selective
- (2) Elective

(15)

### Abbreviated Summer Session\*

- (1) **AT 245** (Cross-Country Flight)

### Sophomore Year

#### Third Semester

- (1) **AT 210** (Ground Trainer I)
- (3) **AT 247** (Aircraft Operating Systems)
- (2) **AT 248** (Commercial Flight II)
- (4) **AT 249** (Instrument Flight Lectures)
- (3) **COM 114** (Fundamentals of Speech)
- (3) **PSY 120** (Elementary Psychology)

(16)

#### Fourth Semester

- (1) **AT 211** (Ground Trainer II)
- (2) **AT 253** (Instrument Flight)
- (4) **AT 254** (Commercial Flight Lectures)
- (3) **ECON 210** (Principles of Economics)
- (4) Physics selective
- (2) Elective

(16)

Students who have completed the A.S. curriculum in aviation flight technology or its equivalent may be admitted to the professional flight technology B.S. degree program.

### Criteria Necessary to Become a Junior in Professional Flight

The flight faculty has established minimum standards for sophomores to continue into the junior year. In general, students:

- Must have at least **30 hours of non-aviation**, collegiate-level coursework applicable to the Professional Flight Plan of Study taken at Purdue or directly transferable to Purdue.
- An unrestricted U.S. FAA Commercial Pilot Certificate, single-engine land.
- An unrestricted U.S. FAA Instrument Rating-Airplane.

- An FAA medical certificate valid for at least second-class privileges.
- A minimum cumulative (not semester) grade point average of 2.5 out of 4.0 in all coursework.
- A minimum cumulative (not semester) grade point average of 2.5 out of 4.0 in all **AT** coursework.
- All AT coursework within the first two years of the flight curriculum must be taken as graded — the pass/not-pass option is not allowed.
- All U.S. citizens must have a valid U.S. Passport.

*Note:* Non-flight majors wishing to transfer into the professional flight option as juniors must also meet these requirements and are accepted on a space available, academically competitive basis.

\*All students who enter without a private pilot certificate must attend one abbreviated summer session in the aviation flight technology program. AT 245 typically is taken during a summer session or independently with departmental permission.

## Aviation Technology: Professional Flight Technology Option (B.S.)

Credit Hours Required for Bachelor's Degree: 128

### Junior Year

#### Fifth Semester

- (3) **AT 300** (Aviation Infrastructure)
- (2) **AT 321** (Transport Aircraft Operations Lecture I)
- (1) **AT 323** (Transport Aircraft Operations Lab I)
- (1) **AT 353** (Multi-Engine Flight)
- (2) **AT 354** (Turbine Flight Operations Lecture)
- (4) **AT 355** (Transport Aircraft Systems and Operations I)
- (4) Physics selective

(17)

#### Sixth Semester

- (2) **AT 301** (Crew Resource Management)
- (3) **AT 320** (High Performance Aircraft Operations)
- (2) **AT 322** (Transport Aircraft Operations Lecture II)
- (1) **AT 324** (Transport Aircraft Operations Lab II)
- (2) **AT 329** (Advanced Navigation)
- (2) **AT 356** (Turbine Flight Operations Lab I)
- (2) **AT 384** (Transport Aircraft Systems and Operations II)
- (3) Elective

(17)

### Senior Year

#### Seventh Semester

- (1) **AT 400** (Aviation Professional Issues)
- (3) **AT 411** (Regional Transport Aircraft and Operations III)
- (2) **AT 416** (Airline Indoctrination)
- (1) **AT 465** (Transport Aircraft Operations Lecture III)
- (1) **AT 467** (Transport Aircraft Operations Lab III)
- (3) **EAS 325** (Aviation Meteorology)
- (3) Organizational leadership/management selective
- (3) Technical communications selective

(17)

#### Eighth Semester

- (2) AT simulator selective sequence†
- (2) AT selective
- (3) English/communication selective
- (3) Humanities elective
- (3) Elective
- (-) Globalization requirement\*

(13)

## Flight Instruction Courses

The Department of Aviation Technology offers a number of flight and ground support courses at the West Lafayette campus. Students in the University, with the approval of their advisors and the aviation flight technology section, are eligible to enroll in these courses. University staff members also are eligible for enrollment. Registration in these courses is subject to limitations imposed by the availability of flight and simulator equipment and will be conducted on a first-come, first-served basis.

**Physical Examination.** A beginning student must make arrangements for a flight physical examination. This examination must be administered by an approved FAA medical examiner. A listing of approved examiners is available in the flight instruction office at the Purdue University Airport. Students in advanced courses offering flight training must possess a second-class medical certificate dated within the preceding 12 calendar months; students taking private pilot courses are required to hold a third-class medical certificate (or higher) issued within the preceding 24 calendar months. These physical examinations must be completed before enrollment.

† At least two credit hours in one simulator sequence required to graduate. Some sequences must be completed in their entirety to qualify for a certificate and may require coursework after graduation.

\* A student has seven options from which to choose in meeting the globalization requirement: 1.) study abroad, 2.) complete an internship outside the United States, 3.) participate in an aviation technology-sponsored travel abroad trip, 4.) having lived/traveled outside the United States for at least 90 days since the student's 12th birthday, 5.) complete certain campus classes, 6.) complete 12 credit hours in one foreign language, or 7.) participate in an approved international research program that involves at least five days of international travel.

## Undergraduate Courses

(2006–07 fees — contact the Office of the Bursar for current fee information)

<i>Credits</i>	<i>Fee</i>
(2) <b>AT 145</b> (Private Pilot Flight)	\$5,875
(1) <b>AT 243</b> (Commercial Flight I)	\$6,120
(1) <b>AT 245</b> (Cross-Country Flight)	\$1,835
(2) <b>AT 248</b> (Commercial Flight II)	\$6,120
(2) <b>AT 253</b> (Instrument Flight)	\$6,000
(2) <b>AT 351</b> (Flight Instructor)	\$1,590
(1) <b>AT 353</b> (Multi-Engine Flight)	\$2,425
(1) <b>AT 357</b> (High Altitude Operation)	\$1,460
(1) <b>AT 365</b> (Instrument Flight Instructor)	\$1,580
(2) <b>AT 366</b> (Multi-Engine Flight Instructor)	\$1,810
(1) <b>AT 450</b> (Airline Transport Pilot)	\$2,585

## Simulator Courses

<i>Credits</i>	<i>Fee</i>
(1) <b>AT 210</b> (Ground Trainer I)	\$915
(1) <b>AT 211</b> (Round Trainer II)	\$915
(1) <b>AT 323</b> (Transport Aircraft Operations Lab I)	\$1,947
(1) <b>AT 324</b> (Transport Aircraft Operations Lab II)	\$1,947
(2) <b>AT 440</b> (Aircraft Procedures Lab I)	\$1,947
(2) <b>AT 441</b> (Aircraft Procedures Lab II)	\$1,947
(2) <b>AT 442</b> (Aircraft Procedures Lab III)	\$1,947
(1) <b>AT 463</b> (Corporate Flight Operations Lab I)	\$1,947
(1) <b>AT 464</b> (Corporate Flight Operations Lab II)	\$1,947
(1) <b>AT 467</b> (Transport Aircraft Operations Lab III)	\$1,947
(1) <b>AT 468</b> (Transport Aircraft Operations Lab IV)	\$1,947

*Note: Flight and simulator course fees are related to actual operating costs and are subject to change.*

## Department of Building Construction Management Technology

The Department of Building Construction Management Technology mission focuses on the preparation of students for a lifelong, challenging, and rewarding career in the construction industry. The department offers a program that prepares students to become professional managers of the construction process. The program emphasizes the management of people, the construction process, and the machines, materials, and financial assets with which structures are built. It stresses production rather than design, and management skills rather than craft skills.

Project managers are familiar with both the technical and management aspects of construction. They determine the appropriate construction methods, estimate the projected cost, and schedule all required construction activities in a logical sequence. Computers and other technologies are used to evaluate various construction methods and determine the most cost-efficient and time-saving plan. Project managers must communicate with owners, other construction

managers, and design professionals on a regular basis to synchronize all phases of the construction project.

Large and small general construction firms, specialty construction firms, users of construction services (owners), government agencies, and architectural and engineering firms often employ graduates. Experienced graduates fill positions such as project manager, estimator, scheduler, cost analyst, resource controller, safety director, procurement officer, project controls manager, project superintendent, field engineer, and other executive positions.

### *Construction Work Experience*

A minimum of 800 hours of construction work experience in any segment of the construction industry are required before graduation. Summer jobs, full-time employment during the academic year, part-time work, or cooperative (co-op) education may be used to satisfy this requirement. The purpose of this work experience is to expose the student to the construction industry.

Students may elect to satisfy this requirement with the five-year cooperative education program. Through this program, the student has the opportunity to work in the construction industry as well as attend the University. Alternating periods of study with periods of work will provide the student with a variety of experi-

ences related to, and integrated with, the field of study. As experience and demonstrated abilities grow, so do responsibilities and salary. Those who successfully complete the co-op program and qualify for a degree from Purdue University are awarded a co-op certificate of completion by the Purdue Board of Trustees.

## Building Construction Management (A.S. and B.S.)

*Accredited by the American Council for Construction Education (ACCE)*

The BCM curriculum is based on general commercial construction practices and has construction classes throughout the four-year plan of study. Principles of ethics, profitability, responsibility, decision-making, and leadership are core to the courses. Upon successfully completing the required courses, students will receive the bachelor of science degree. In addition to the general commercial construction management core program, students may elect to take specialized courses in the areas such as demolition and reconstruction, electrical construction management, healthcare

construction management, mechanical construction management, or residential construction management. During the last two years of study, electives permit the student to orient his or her program toward a variety of specific segments of the construction industry.

The Department of Building Construction Management offers an associate of science degree. Students in the associate of science program are required to successfully complete the courses marked with an asterisk (\*) in the following plan of study.

### Credit Hours Required for Associate Degree: 64

### Credit Hours Required for Bachelor's Degree: 128

#### Freshman Year

##### *First Semester*

- (2) **BCM 100** (Introduction to Construction)\*
- (2) **C&IT 136** (Personal Computing Technology)\*
- (4) **ENGL 106** (First-Year Composition)\*
- (5) **MA 159** (Precalculus)\*
- (3) Human relations selective†

(17)

##### *Second Semester*

- (4) **BCM 175** (Construction Materials and Methods)\*
- (2) **CGT 164** (Computer Graphics for Civil Engineers and Construction)\*
- (3) **COM 114** (Fundamentals of Speech Communication)\*
- (3) **MA 221** (Calculus for Technology I)\*
- (3) **OLS 274** (Applied Leadership)\*

(15)

\* Courses required for associate degree.

† Human relations selective: PSY 120, SOC 100, OLS 252, or equivalent.

Note: BCM majors must earn a grade of "C" or better for all BCM courses and all courses that are prerequisite to a BCM course. The "C" grade must be earned before registering in subsequent courses. BCM courses can be repeated only once.

## Sophomore Year

### Third Semester

- (3) **BCM 112** (Construction Surveying Fundamentals)\*
  - (3) **BCM 215** (Mechanical Construction)\*
  - (3) **BCM 275** (Construction Plans and Measurements)\*
  - (4) **PHYS 218** (General Physics)\*
  - (3) Communication selective†
- 
- (16)

### Fourth Semester

- (3) **BCM 212** (Construction Layout)
  - (3) **BCM 216** (Electrical Construction)\*
  - (4) **BCM 285** (Construction Mechanics)\*
  - (3) **ECON 210** (Principles of Economics)\*
  - (4) Science selective‡
- 
- (17)

## Junior Year

### Fifth Semester

- (3) **BCM 350** (Construction Site Planning)
  - (3) **BCM 375** (Estimating)\*
  - (3) **BCM 380** (Concrete Construction)
  - (3) **BCM 385** (Soils and Foundations)
  - (3) **MGMT 190B** (Accounting Principles)\*
- 
- (15)

### Sixth Semester

- (3) **BCM 301** (Construction Accounting and Financial Management)\*
  - (3) **BCM 345** (Scheduling)
  - (3) **MGMT 455** (Legal Background for Business I)
  - (3) **STAT 301T** (Elementary Statistical Methods) **or** **IT 342** (Introduction to Statistical Quality)
  - (3) General education elective§
  - (2) Technical electivell
- 
- (17)

## Senior Year

### Seventh Semester

- (3) **BCM 355** (Construction Supervision)
  - (3) **BCM 450** (Construction Documentation and Administration)
  - (3) **BCM 475** (Construction Costs)
  - (3) **ENGL 420** (Business Writing) **or** **ENGL 421** (Technical Writing: Engineering and Science Applications)
  - (3) Technical electivell
- 
- (15)

### Eighth Semester

- (4) **BCM 455** (Construction Company Management)
  - (3) **BCM 457** (Construction Safety)
  - (3) BCM elective
  - (3) Technical electivell
  - (3) Elective
- 
- (16)

\* Courses required for associate degree.

† Communication selective: *COM 314, 315, 318, 320, 324, 325, AGEC 331, or COM 415.*

‡ Science selective: *PHYS 219 or CHM 115.*

§ General education elective: *a course in the liberal arts or communication areas.*

ll Technical elective: *courses in the construction management specialization, a College of Technology course, or a course related to the student's career goal.*

Note: *BCM majors must earn a grade of "C" or better for all BCM courses and all courses that are prerequisite to a BCM course. The "C" grade must be earned before registering in subsequent courses for which the class is a prerequisite. BCM courses can be repeated only once.*



## **Electrical Construction Management Specialization (ECM)**

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*Students electing to specialize in electrical construction management will take the following courses:*

- (3) **BCM 316** (Electrical Construction Estimating)
- (3) **BCM 416** (Electrical Construction Management)
- (3) **BCM 417** (Design/Build for MEP Contractors)

## **Mechanical Construction Management Specialization (MCM)**

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*Students electing to specialize in mechanical construction management will take the following courses:*

- (3) **BCM 315** (Mechanical Construction Estimating)
- (3) **BCM 415** (Mechanical Construction Management)
- (3) **MET 417** (Design/Build for MEP Contractors)

## **Residential Construction Management Specialization (RCM)**

---

*Students electing to specialize in residential construction management will take the following courses:*

- (3) **BCM 460** (Residential Land Development)
- (3) **BCM 484** (Residential Construction)
- (3) **AGEC 331** (Principles of Selling in Agricultural Business)

## Department of Computer and Information Technology

Success in business today is dependent upon information systems that provide timely and correct information, support efficient business processes, and promote effective communication across the enterprise. Information technology professionals are responsible for meeting this need.

What is an information system? Every day we come in contact with various information systems, such as a course registration system, a hospital patient records system, an inventory control system, or an automatic bank teller machine.

What is information technology? Information technology provides the “engine” used to drive useful information systems. This includes computers, software, and networking engineering technology. Computer and information technology students learn to harness the power of information technology to create information systems and networks that solve business problems and create a competitive advantage.

Computer and information technology graduates are recruited by companies such as Cerner, Crowe Chizek & Company, Discover Financial Services, Eli Lilly, Exxon Mobil, IBM, John Deere, Lockheed Martin, and State Farm.

### *College of Technology Statewide*

The College of Technology statewide provides programs in computer and information technol-

ogy at several Indiana locations. See “College of Technology statewide” in the index.

### *Bachelor of Science Degrees*

The Department of Computer and Information Technology (CIT) offers the bachelor of science degree in computer and information technology at West Lafayette, Columbus, and Kokomo. The B.S. degree program in West Lafayette offers the choice of two options: (1) information systems and technology and (2) networking engineering technology. The plan of study for each option is included in this catalog.

### *Curriculum Currency and Changes*

Degree requirements in a dynamic discipline such as computer information systems and technology are constantly changing. See the computer and information technology Web site at [www.purdue.edu/cit](http://www.purdue.edu/cit) or visit a department counselor for the latest curriculum requirements and options. Appointments are recommended.

A student is bound by the curriculum that was in effect at the time of their last admission or CODO into computer and information technology. In some cases, a student may elect to CODO from their original curriculum into the most recent curriculum; however, when a student elects that option, he or she is bound to fulfill all of the requirements of the new option.

## Information Systems and Technology Option (B.S.)

In this program, students complete four semesters of core courses and then have the flexibility to design a degree program to match individual course selection to personal career objectives. Information technology course selection includes courses in computational life sciences; computer forensics; database management systems; software development and computer programming; and systems analysis, design, and integration. B.S. graduates typically are employed as application developers, consultants, database administrators, IT analysts, programmer/analysts, project managers, software developers, software engineers, and Web developers.

The presumption of the computer and information technology curriculum and faculty is that all new CIT students possess basic proficiencies with personal computing applications. These proficiencies are described on the department Web site. The faculty expects that all students are able to use and demonstrate these skills in any C&IT course. Students can develop or refresh these skills by completing a personal computing applications literacy course such as C&IT 136 or an equivalent. These courses do not carry credit toward any CIT degree requirement but can be very useful for learning and/or refreshing your PC skills and proficiencies.

CIT students must earn a grade of “C” or better in all prerequisite C&IT courses in order to enroll in a C&IT postrequisite course and must maintain a minimum grade point average of 2.0 in all C&IT courses.

Computational life sciences courses prepare students to learn to investigate and explore the tools and objectives of research in the life sciences industry relevant to the skills of information technology, and to understand the methods inherent to bioinformatics and computational life sciences and their role in commercialism and discovery.

Computer forensics courses introduce students to computer forensics and cyber-crime scene analysis and various laws and regulations dealing with computer forensic analysis. The focus is on emerging international standards for computer forensic analysis as well as a formal methodology for conducting computer forensic investigations.

Database management courses teach students learn how to analyze, design, construct, and implement database and data ware-

housing systems for business transaction processing and operations, management information, and decision support.

Software development and computer programming courses prepare students to develop and maintain small, medium, and large application software, including mobile applications. The computing courses focus on using programming languages to construct these software applications for a variety of hardware and software platforms and networks — including the Internet and intranets.

Systems analysis, design, and integration courses teach students how to analyze, design, develop, and/or integrate unique information technology solutions such as e-business applications, enterprise resource applications, and all types of information systems. Emphasis is placed on systems thinking and problem solving. Technical courses emphasize systems analysis, systems design, IT hardware and software procurement, outsourcing, prototyping, application development, systems integration, and systems implementation.

## Information Systems and Technology Option (B.S.)

### Credit Hours Required for Bachelor’s Degree: 122

#### Freshman Year

##### *First Semester*

- (3) **C&IT 141** (Internet Foundations, Technologies, and Development)
- (3) **C&IT 155** (Introduction to Object-Oriented Programming)
- (3) **C&IT 180** (Introduction to Systems Development)
- (4) **ENGL 106** (First-Year Composition)
- (3) **MA 223** (Introductory Analysis I)

(16)

##### *Second Semester*

- (3) **C&IT 176** (Information Technology Architectures)
- (3) **C&IT 255** (Programming for the Internet)
- (3) **MA 224** (Introductory Analysis II)
- (3) **OLS 252** (Human Relations in Organizations)
- (3) General business selective

(15)

## Sophomore Year

### *Third Semester*

- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **C&IT 272** (Database Fundamentals)
- (3) **C&IT 276** (Systems Software and Networking)
- (3) Economics selective
- (3) Problem-solving selective

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 (15)

### *Fourth Semester*

- (3) **C&IT 280** (Systems Analysis and Design Methods)
- (3) **C&IT 295** (Object-Oriented Programming)
- (3) Accounting selective
- (3) Communications selective
- (3) Statistics selective

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 (15)

## Junior Year

### *Fifth Semester*

- (3) **C&IT 372** (Database Programming I) **or**  
**C&IT 392** (Enterprise Data Management)
- (4) **C&IT 380** (Advanced Analysis and Design)
- (3) Interdisciplinary selective
- (3) Professional speaking selective
- (3) Free elective

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 (16)

### *Sixth Semester*

- (6) Information systems selectives
- (3) Interdisciplinary selective
- (3) Liberal arts selective
- (3) Professional writing selective

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 (15)

## Senior Year

### *Seventh Semester*

- (6) Information systems selectives
- (6) Interdisciplinary selectives
- (3) Liberal arts selective

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 (15)

### *Eighth Semester*

- (3) **C&IT 480** (Managing Information Technology Projects)
- (3) Information systems selective
- (6) Interdisciplinary selectives
- (3) Liberal arts selectives

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 (15)

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## Computer and Information Technology Network Engineering Technology Option (B.S.)

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In this program, students learn how to design, construct, troubleshoot, and manage sophisticated voice, video, and data networks. This unique curriculum emphasizes data, image, and voice communications using networking technology. The networking courses focus on subjects such as computer forensics, digital communications, local and wide area network design, wireless networks, system administration, network security, and network planning and management. The ability of graduates to communicate with application and database professionals is enhanced with courses in application development, database design and administration, and systems analysis.

To complement the computing and networking courses, courses in interpersonal communications, business, economics, liberal arts, and electrical and computer engineering technology are required. Students work in state-of-the-art computing laboratories to complete their assignments.

B.S. graduates typically are employed as network analysts, network engineers, network support specialists, and Local Area Network

(LAN) administrators or consultants. Future advancement can lead to positions in management, or as advanced technical specialists. Some students continue their studies to pursue graduate degrees.

The presumption by Computer and Information Technology curriculum and faculty is that all new CIT students possess basic proficiencies with personal computing applications. These proficiencies are described on the department Web site. The faculty expects that all students are able to use and demonstrate these skills in any C&IT course. Students can develop or refresh these skills by completing a personal computing applications literacy course such as C&IT 136 or an equivalent. These courses do not carry credit toward any CIT degree requirement but can be very useful for learning and/or refreshing your PC skills and proficiencies.

CIT students must earn a grade of “C” or better in all prerequisite C&IT courses in order to enroll in a C&IT postrequisite course and must maintain a minimum grade point average of 2.0 in all C&IT courses.

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## Network Engineering Technology Option\*

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**Credit Hours Required for Bachelor’s Degree: 124**

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### Freshman Year

#### *First Semester*

- (3) **C&IT 141** (Internet Foundations, Technologies, and Development)
  - (3) **C&IT 155** (Introduction to Object-Oriented Programming)
  - (3) **C&IT 180** (Introduction to Systems Development)
  - (4) **ENGL 106** (First-Year Composition)
  - (3) **MA 221** (Calculus for Technology I)
- 
- (16)

#### *Second Semester*

- (3) **C&IT 176** (Information Technology Architectures)
  - (3) **C&IT 255** (Programming for the Internet)
  - (3) **MA 222** (Calculus for Technology II)
  - (3) **OLS 252** (Human Relations in Organizations)
  - (3) General business selective
- 
- (15)

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\* The faculty updates approved selectives and exclusions annually. See the CIT Web site for the latest approved selectives, exclusions, and substitutions.

**Sophomore Year**

***Third Semester***

- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **C&IT 230** (Data Communications)
- (3) **C&IT 272** (Database Fundamentals)
- (3) **ECET 214** (Electricity Fundamentals)
- (4) **PHYS 220** (General Physics)

(16)

***Fourth Semester***

- (3) **C&IT 280** (Systems Analysis and Design Methods)
- (3) **C&IT 295** (Object-Oriented Programming)
- (3) **ECET 233** (Electronics and Industrial Controls)
- (4) **PHYS 221** (General Physics)
- (3) **STAT 225** (Introduction to Probability Models)

(16)

**Junior Year**

***Fifth Semester***

- (3) **C&IT 330** (Local Area Networking and Systems Administration)
- (4) **ECET 374** (Digital Telecommunications)
- (3) Communications selective
- (3) Network engineering technology information systems selective
- (3) Professional speaking selective

(16)

***Sixth Semest***

- (3) **C&IT 343** (Advanced System and Network Administration)
- (3) Liberal arts selective
- (3) Network engineering technology information systems selective
- (3) Networking engineering technology selective
- (3) Professional writing selective

(15)

**Senior Year**

***Seventh Semester***

- (3) **C&IT 430** (Internetwork Design and Implementation)
- (3) Business and economics selective
- (3) Liberal arts selective
- (6) Network engineering technology selectives

(15)

***Eighth Semester***

- (3) **C&IT 455** (Network Security)
- (3) **C&IT 480** (Managing Information Technology Projects)
- (3) Business and economics selective
- (3) Liberal arts selective
- (3) Network engineering technology interdisciplinary selective

(15)

## Department of Computer Graphics Technology

The Department of Computer Graphics Technology prepares visually-oriented students for careers in creating and managing the production of computer graphics within a wide range of industries. Students work collaboratively in computer labs to master graphic techniques, concepts, and management skills.

Students begin their study in the Freshman CGT Experience that serves as a foundation for the computer graphics technology baccalaureate program. Before applying for admission into the professional program, a student must successfully complete all courses in the Freshman CGT Experience with a minimum Graphics Admission Index (GAI) of 2.5. Admission is not guaranteed by the grade point average of 2.5; rather, it is

the minimum standard for consideration of admission.

After successful completion of the Freshman CGT Experience, students continue mastering generalized concepts and skills in applied computer graphics technology or develop more in-depth competencies in areas such as computer animation; construction graphics; interactive multimedia development; or virtual product integration.

### *College of Technology Statewide*

The College of Technology statewide provides programs in computer graphics technology at a number of Indiana locations. See “College of Technology statewide” in the Index.

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### Computer Graphics Technology (A.S)

The Department of Computer Graphics Technology offers an associate of science (A.S.) degree (63 credit hours) at West Lafayette and several statewide locations. Students in the A.S. program will follow the plan of study for

the first four semesters of the four-year plan of study, with some exceptions. For more information about the A.S. plan of study, see any counselor in the department. We recommend that you make an appointment.

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### Computer Graphics Technology (B.S)

With the advent of the information age and mainstream adoption of computer graphics and digital technology, there is a need for highly educated people to apply emerging computer graphics technologies to many industries. The seemingly limitless applications of computer graphics are creating the need for individuals who are both highly skilled in the technology of computer graphics and broadly educated in related interdisciplinary skills, including technical problem solving; graphic database management; applied graphic programming; graphic design; interactive media design and development; 2D and 3D modeling; and animation and motion-based computer graphics. The computer graphics technologist coordinates the production, application, and evaluation of visual information. Computer graphics specialists differ from visual artists, engineering designers, managers, and computer programmers by combining elements of all these disciplines.

Graduates of both the A.S. and the B.S. degree programs are employed by such firms as BBG Worldwide, Boeing, Braun Consulting, Caterpillar, Chrysler, Electronic Arts, General Motors, John Wieland Homes and Neighborhoods, IBM, LucasArts, Midway Games, Rhythm & Hues, School Datebooks, Wal-Mart, and Wausau Homes.

### *Honors Program*

The goal of the Honors Program in Computer Graphics Technology is to introduce, enlighten, nurture, and motivate top students in emerging technology in a unique and interesting way. Students who qualify may participate in the program their first semester at Purdue. To participate as a first-semester freshman, a student must have earned a combined verbal and math SAT score of 1200 or above (or equivalent ACT score). Students may enter the program at any time, provided they have maintained a minimum overall GPA of 3.5.

Requirements for graduating with honors include completion of two seminars of CGT 290H (1 credit each) and 2 seminars of CGT 490H (3 credits each), in addition to the degree requirements. Students who successfully complete the senior year honors seminars will

receive a certificate of recognition from Purdue University and will be listed in the commencement program as having participated in an honors program. Also, a statement of achievement will be included on their academic transcript.

## Computer Graphics Technology

### Credit Hours Required for Bachelor's Degree: 123

#### Freshman Computer Graphics Technology

##### First Semester

- (3) **CGT 101** (Introduction to Computer Graphics Technology)\*
  - (3) **CGT 111** (Design for Visualization and Communication)\*
  - (3) **CGT 112** (Sketching for Visualization and Communication)\*
  - (5) **MA 159** (Precalculus)\*
  - (3) English selective\*
- 
- (17)

##### Second Semester

- (3) **CGT 116** (Geometric Modeling for Visualization and Communication)\*
  - (3) **CGT 141** (Internet Foundations, Technologies, and Development)\*
  - (3) **COM 114** (Speech Communication)\*
  - (3) **C&IT 175** (Visual Programming)\*
  - (3) **MA 221** (Calculus for Technology I)\*
- 
- (15)

#### Professional Program for Computer Graphics Technology

##### Sophomore Year

##### Third Semester

- (3) **CGT 211** (Raster Imaging for Computer Graphics)
  - (4) **PHYS 218** (General Physics)
  - (3) **PSY 120** (Elementary Psychology)
  - (3) CGT selective†
  - (3) Liberal arts elective
- 
- (16)

##### Fourth Semester

- (3) **CGT 216** (Vector Imaging for Computer Graphics)
  - (3) **C&IT 267** (Introduction to C++ Language Programming)
  - (3) **ECON 210** (Principles of Economics)
  - (3) Science elective
  - (3) Elective
- 
- (15)

##### Junior Year

##### Fifth Semester

- (3) Communication selective
  - (6) CGT selectives†
  - (3) English selective
  - (3) Technical elective
- 
- (15)

##### Sixth Semester

- (3) **OBHR 300** (Management of Human Resources)
  - (3) CGT selective†
  - (3) Statistics selective
  - (3) Liberal arts elective
  - (3) Elective
- 
- (15)

##### Senior Year

##### Seventh Semester

- (3) **CGT 411** (Contemporary Problems in Applied Computer Graphics)
  - (3) **CGT 450** (Professional Practices)
  - (3) **MGMT 455** (Legal Background for Business I)
  - (3) Technical elective
  - (3) Elective
- 
- (15)

##### Eighth Semester

- (3) CGT selective†
  - (3) Liberal arts elective
  - (3) Management elective
  - (3) Technical elective
  - (3) Elective
- 
- (15)

\* Indicates courses included in Freshman Graphics Admission Index (GAI).

† Courses for CGT majors must be 300-level or above.



## Definitions:

**Communication selective:** COM 312, 314, 315, 318, 320, 330, or 415.

**English selective:** Select one from ENGL 106 or 108; and select one from ENGL 205, 419, 420, or 421.

**Liberal arts elective:** Any course with one of these prefixes: ANTH, A&D, COM, ECON, ENGL, FLL, HIST, IDIS, MUS, PHIL, POL, PSY, THTR, or SOC.

**Management elective:** Any course in organizational leadership and supervision or management.

**Science elective:** See an academic counselor or the CGT Web site for an approved list.

**Statistics selective:** STAT 225 or 301T; PSY 201, or IT 342.

**Technology elective:** Any course from engineering, technology, science, or management.

## Manufacturing Graphics Minor

A manufacturing graphics minor is offered by the Department of Computer Graphics Technology at Purdue to students in select majors outside the department. Students have the opportunity to develop manufacturing graphics expertise in their chosen academic major and subject specializations. Those who complete the minor will be equipped with applied knowledge in current and emerging graphics theories and computer graphics technologies associated with the design, documentation, and manufacturing of products and related services.

### Availability

The minor in manufacturing graphics is open only to the following majors:

- Aeronautics and Astronautics Engineering (AAE)
- Agricultural and Biological Engineering (ABE)
- Aviation Technology (AT)
- Computer Programming (CPT)
- Industrial Design (ID)
- Industrial Engineering (IE)
- Industrial Management
- Industrial Technology (IT)
- Interdisciplinary Engineering (IDE)
- Manufacturing Engineering Technology (MFET)
- Mechanical Engineering (ME)
- Mechanical Engineering Technology (MET)

### Additional Information

Other courses outside of manufacturing graphics offered by the Department of Computer Graphics Technology will not be available for enrollment by non-computer graphics technology majors who are accepted in the computer graphics technology manufacturing graphics minor.

**Prerequisite Courses.** The following prerequisite courses (one in each area) are required before enrolling in CGT 226:

- MA 161, 221, 223; or an approved substitution;
- C&IT 267; C S 156 or 158 or 159; or an approved substitution;
- PHYS 152, 218, or 220; or an approved substitution.

### Requirements

- All courses in the minor must be taken for a grade. Pass/Not Pass is not an option.
- A grade of "C" or better must be obtained in all computer graphics technology manufacturing graphics minor classes.
- Only students pursuing four-year degrees are eligible for the minor. Students must complete 14 or more credit hours selected from the following list of courses:

### Credit Hours Required for Minor: 14

*At least 14 credit hours selected from:*

- (3) **CGT 110** (Computer Graphics Communications) **or**
- (3) **CGT 116** (Geometric Modeling for Visualization and Communication) **or**
- (2) **CGT 163** (Introduction to Graphics for Manufacturing) **or**
- (2) **CGT 164** (Introduction to Graphics for Civil Engineering and Construction)
- (3) **CGT 226** (Introduction to Constraint-Based Modeling), which is co-listed as CIMT 211
- (3) **CGT 323** (Introduction to Surface Modeling)
- (3) **CGT 326** (Graphics Standards for Product Definition)

Select one of the following:

- (3) **CGT 423** (Product Data Management) **or**
- (3) **CGT 426** (Industry Applications of Simulation and Visualization)

## Department of Electrical and Computer Engineering Technology

The Department of Electrical and Computer Engineering Technology (ECET) offers the electrical engineering technology (EET) program with a wide variety of elective courses so a student may emphasize certain specialty areas such as electronics and electrical technologies, process and machine control, computers, microprocessors, embedded microcontrollers and systems, analog and digital communications, telecommunications, local area networks, power systems, digital electronics, and instrumentation. Project management and development, professional development, and teamwork are threads throughout the EET program.

ECET graduates conceive, design, develop, test, and implement technologies that impact humanity and society. Electronics are the cornerstone technology in a modern, high-tech society. Just imagine the technology that electronics make possible: computers, the Internet, ATMs, automobiles, airplanes, trains, gas pumps, water pumps, televisions, radios, electric lights, air conditioning, electronically-controlled heating systems, pacemakers, medical equipment, and the list goes on and on. Electronics technology is interwoven in a civilized world. ECET graduates have a tremendous impact on the technical world that is embedded in our civilization and our culture. ECET graduates make a difference.

The bachelor of science program in EET is highly structured during the first two years of study to provide a strong foundation, and relatively flexible during the last two years to allow students to specialize or generalize. The program provides a laboratory-based curriculum that combines hands-on practice with the appropriate basic electrical and electronic theory. It is applications-oriented and is designed to prepare well-rounded graduates who will complete the program and succeed in one or more of the fields related to electrical engineering technology.

The educational objective of the EET bachelor of science program at Purdue is to produce graduates who:

- Have technical and professional skills that prepare them for immediate employment in an electrical or electronics engineering-related capacity and who add value to their company shortly after they are employed.
- Analyze, design, and implement control systems, communications systems, computer systems, or power systems utilizing mathematical methods, including statistics/probability, transform methods, discrete mathematics, or applied differential equations.
- Communicate effectively in oral, written, and graphical forms at a level appropriate to an electrical or electronics technologist.
- Work effectively, individually, and as a member or leader of a multidisciplinary team.
- Demonstrate a high standard of professional ethics and are cognizant of social concerns as they relate to the practice of engineering technology.
- Continue their education through short courses, industrial training, and/or participation in a graduate program.
- Apply project management techniques to EET projects.

Students working toward the B.S. degree choose electives in the ECET department as well as technical courses from other departments to support their areas of interest. Students may choose technical electives such as fluid power, statics and dynamics, manufacturing operations, theatre audio technology, or human anatomy and physiology. Many others are available as well.

The ECET department also offers an opportunity to specialize in computer engineering technology (CpET) in the upper division of the B.S. EET program. Students who wish to focus their education on technical aspects of computers and computer networking and applications of these technologies will be interested in this opportunity.

The computer is undoubtedly the most pervasive electronic device available today. Computers affect our lives in many ways that we take for granted. One example is the automobile, which has several computers called "embedded microcontrollers" that work together as a network make the car run smoothly and efficiently. The rapidly expanding use of computers has created a huge need for knowledgeable professionals who can work with these devices. The computer engineering technology specialization is a direct answer to this exploding need.

Electrical engineering technology is a field well suited to anyone who wishes to enter a fast-paced, progressive technology with unlimited growth potential. The lecture/laboratory format of the courses makes the material easier to digest, whether the student is more comfortable learning from a hands-on, application-oriented perspective or from a theoretical perspective.

Graduates of the EET program and the EET program with the CpET specialization are in great demand by firms such as General Electric, Delphi Electronics, General Motors, Cinergy, Siemens, CTS Microelectronics, Square D, Boeing, IBM, Rockwell International, Hewlett-Packard, Republic Steel, Sundstrand, AdTran, Motorola, and Northern Telecom. The aver-

age starting salary for graduates of the ECET department ranks near the top when compared to starting salaries for other Purdue B.S. graduates.

### ***Cooperative Education***

A cooperative education program is available. Students combine on-the-job work experience with classroom studies and have the opportunity to earn credits toward graduation while earning money to help pay for college expenses.

### ***College of Technology Statewide***

The College of Technology statewide provides programs in electrical engineering technology at a number of Indiana locations. See "College of Technology statewide" in the Index.

## **Electrical Engineering Technology (B.S.)**

The B.S. degree in EET prepares students for positions as professionals in a variety of industries such as microcomputers and embedded controller systems, computer systems, audio-visual and entertainment media, electronics communications, technical automation, electrical power and energy management, and manufacturing systems. The plan of study provides coursework in electrical engineering technology as well as in related areas that provide background information in both technical and non-technical subjects. It provides a strong technical education in concentrations such as analog electronics, digital systems, microcomputer systems, RF communications, industrial automation, or electrical power. With a solid underpinning in the first two years, a student may then specialize in a concentration area or be a generalist selecting from several electives in the upper division.

Most electrical engineering technology graduates are ordinarily involved with technical aspects of components, subsystems, and

overall systems. In many circumstances, they are involved in system design. Oftentimes EET graduates move from technical work to management, and progress to senior-level positions such as vice president, executive vice president, president, and CEO. Some EET program graduates elect to continue their studies through graduate education, while others pursue their careers as entrepreneurs.

## **Accreditation**

The B.S. EET program at the West Lafayette location, the A.S. and B.S. EET programs at the Kokomo location, and the A.S. EET program at the New Albany location are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012. Telephone (410) 625-2238; E-mail [tax@abet.org](mailto:tax@abet.org); Web site [www.abet.org](http://www.abet.org).

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## Electrical Engineering Technology (B.S.)

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### Credit Hours Required for Bachelor's Degree: 127

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#### Freshman Year

##### *First Semester*

- (4) ECET 107 (Introduction to Circuit Analysis)
  - (3) ECET 109 (Digital Fundamentals)
  - (2) ECET 196 (Introduction to ECET and Projects)
  - (4) ENGL 106 (First-Year Composition) **or**
  - (3) ENGL 108 (Accelerated First-Year Composition)
  - (3) MA 153 (Algebra and Trigonometry I)
- 
- (15–16)

##### *Second Semester*

- (3) COM 114 (Fundamentals of Speech Communication)
  - (3) C&IT 105 (Introduction to C Programming)
  - (4) ECET 157 (Electronics Circuit Analysis)
  - (4) ECET 159 (Digital Applications)
  - (3) MA 154 (Algebra and Trigonometry II)
- 
- (17)

#### Sophomore Year

##### *Third Semester*

- (4) ECET 207 (AC Electronics Circuit Analysis)
  - (4) ECET 209 (Introduction to Microcontrollers)
  - (3) MA 221 (Calculus for Technology I)
  - (4) PHYS 218 (General Physics)
  - (3) Humanities or social science elective
- 
- (18)

##### *Fourth Semester*

- (4) ECET 231 (Electrical Power and Controls)
  - (4) ECET 257 (Power and RF Electronics)
  - (4) ECET 297 (Electronic Prototype Development)
  - (3) MA 222 (Calculus for Technology II)
- 
- (15)

#### Junior Year

##### *Fifth Semester*

- (4) ECET 304 (Introduction to Communication Systems)\*
  - (4) ECET 307 (Analog Network Signal Processing)\*
  - (3) ENGL 421 (Technical Writing)
  - (3) STAT 301T (Elementary Statistical Methods)
  - (4) ECET elective
- 
- (18)

##### *Sixth Semester*

- (4) ECET 396 (Project Development and Management)
  - (8) ECET electives
  - (3) Humanities or social science elective
- 
- (15)

#### Senior Year

##### *Seventh Semester*

- (1) ECET 480 (Professional Issues in EET)
  - (1) ECET 496 (Project Design and Development, Phase I)
  - (3) Communication selective
  - (3) Science selective
  - (3) Selective
  - (4) ECET elective
- 
- (15)

##### *Eighth Semester*

- (1) ECET 497 (Project Design and Development, Phase II)
  - (3) Selective
  - (6) Humanities or social science electives
  - (3) Free elective
- 
- (13)

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\* The computer engineering technology (CpET) specialization requires ECET 325 (Computer Architecture Analysis) and C&IT 230 (Data Communications) in the upper division and does not include ECET 304 (Introduction to Communication Systems) or ECET 307 (Analog Signal Processing). See ECET counselor for further details.

## Department of Industrial Technology

The Department of Industrial Technology offers bachelor's (B.S.) degrees with majors in industrial technology, industrial distribution, and technology education. The department also offers an associate degree in industrial technology. All programs have a technology base, with the majority of courses providing laboratory experiences in state-of-the-art laboratories. Programs are designed to prepare graduates for entrance into a wide range of positions in business, industry, and government.

The department's mission is to provide world-class integrated curricula that are relevant to students' lives and careers, valuable in terms of content and competencies, and connected to the needs of business and industry. Our vision is to be the nation's premier department, preparing graduates to excel in our programs. The department has set goals to meet the commitments of the mission and vision.

The placement rate for industrial technology graduates has been exceptional in recent years. They work in major corporations as well as in small- to medium-sized companies. The "Big Three" automakers, Caterpillar, IBM, Rockwell, Texas Instruments, Boeing, Grainger, and Emerson are among the companies that employ our IT graduates. The department has student-oriented faculty who are experts in their fields, and they continuously pursue scholarship and professional development.

### Associate of Science Degree in Industrial Technology (A.S.)

The Department of Industrial Technology offers an associate of science degree (63 credit hours). Students in the A.S. program will follow the plan of study for the first four semesters

In addition to the formal academic offerings, the department sponsors student organizations, field trips, and other extracurricular activities supportive of students' academic and professional development. Co-op and internship opportunities are also available.

The industrial technology and industrial distribution programs are accredited by the National Association of Industrial Technology (NAIT). The technology education degree program is accredited by the National Council for Accreditation of Teacher Education.

### *College of Technology Statewide*

The College of Technology statewide provides programs in industrial technology at a number of Indiana locations. See "College of Technology statewide" in the Index.

**Certificate Program.** A certificate program (27 credit hours) in industrial technology is available at several College of Technology statewide locations. This program, which is designed for full-time employees, prepares an individual for a leadership position.

**Bachelor of Science.** A bachelor of science degree is available in industrial technology at the Richmond and Kokomo locations.

of the B.S. degree plan of study, with some exceptions. Those interested in the associate degree should consult the department for a full explanation of procedures.

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## Industrial Technology (B.S.)

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The industrial technology program is designed to prepare students in both technical and management areas. Graduates are best suited for technical and/or managerial positions in business, industry, and government. Coursework includes production planning, industrial ergonomics and safety, quality control and productivity, manufacturing facilities planning, materials handling, automated manufacturing

systems, automatic identification and data capture, and computer simulation. The placement rate of industrial technology graduates is exceptional; typical entry-level position titles include industrial engineer, manufacturing engineer, operations manager, product manager, and quality assurance engineer. The industrial technology program is accredited by the National Association of Industrial Technology (NAIT).

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## Industrial Technology (B.S.)

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### Credit Hours Required for Bachelor's Degree: 121

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#### Freshman Year

##### *First Semester*

- (3) **C&IT 136** (Personal Computing Technology and Applications)
- (4) **ENGL 106** (First-Year Composition)
- (3) **IT 104** (Industrial Organization)
- (5) **MA 159** (Precalculus)

---

(15)

##### *Second Semester*

- (3) **CGT 110** (Technical Graphics Communications)
- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **IT 114** (Problem-Solving in Manufacturing)
- (3) **PSY 120** (Elementary Psychology)
- (3) Math or computing selective

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(15)

#### Sophomore Year

##### *Third Semester*

- (3) **AT 263** (Fluid Power Systems)
- (3) **C&IT 175** (Visual Programming)
- (3) **IT 281** (Industrial Safety)
- (3) **MET 141** (Materials I)
- (3) Science selective

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(15)

##### *Fourth Semester*

- (3) **ECON 210** (Principles of Economics)
- (3) **IT 230** (Industrial Supply Chain Management)
- (3) **MET 242** (Manufacturing Processes II)
- (4) **PHYS 218** (General Physics)
- (3) Free elective

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(16)

#### Junior Year

##### *Fifth Semester*

- (3) **CIMT 300** (Applications of Automation in Manufacturing)
- (3) **ECET 214** (Electricity Fundamentals)
- (3) **IT 342** (Introduction to Statistical Quality)
- (3) Communication or English elective (300-level or above)
- (3) Technical elective

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(15)

##### *Sixth Semester*

- (3) **IT 345** (Automatic Identification and Data Capture)
- (3) **IT 385** (Industrial Ergonomics)
- (3) **MET 241** (Polymer Materials and Processes)
- (3) Science selective
- (3) Technical elective (300-level or above)

---

(15)

**Senior Year*****Seventh Semester***

- (3) **COM 315** (Speech Communication of Technical Information) **or**  
**ENGL 420** (Business Writing)
  - (3) **IT 381** (Total Productive Maintenance)
  - (3) **IT 442** (Production Planning)
  - (3) **IT 450** (Production Cost Analysis)
  - (3) Free elective
- (15)

***Eighth Semester***

- (3) **IT 483** (Facility Design for Lean Manufacturing)
  - (3) Technical elective (300-level or above)
  - (9) Free electives
- (15)

**Industrial Distribution (B.S.)**

The industrial distribution program is designed to prepare students with the skills needed to serve the industrial distribution industry — one of the largest and fastest growing industrial segments in the United States and abroad. The industrial distribution curriculum provides students with a valuable blend of courses in industrial technology, distribution management, and business management. Purdue's program has established strong relationships with industry trade groups.

Required technology courses include courses in material science, computer graphics, manual and automated manufacturing processes, and automatic identification and data capture.

Courses in business and distribution management include industrial organization, marketing, industrial sales and sales management, warehouse and inventory control, logistics and supply chain management, accounting and finance, and human resource management.

The industrial distribution program is accredited by the National Association of Industrial Technology (NAIT). The placement rate of industrial distribution graduates is exceptional; typical entry-level positions include industrial sales engineer, purchasing agent, logistics analyst, warehouse manager, and assistant manager of supply chain/distribution operation.

**Industrial Distribution (B.S.)****Credit Hours Required for Bachelor's Degree: 121****Freshman Year*****First Semester***

- (3) **C&IT 136** (Personal Computing Technology and Applications)
  - (3) **COM 114** (Fundamentals of Speech Communication)
  - (3) **PSY 120** (Elementary Psychology)
  - (3) **IT 104** (Industrial Organization)
  - (5) **MA 159** (Precalculus)
- (17)

***Second Semester***

- (3) **CGT 110** (Technical Graphics Communications)
  - (4) **ENGL 106** (First-Year Composition)
  - (3) **IT 114** (Problem-Solving in Manufacturing)
  - (3) **MET 141** (Materials I)
- (13)

**Sophomore Year*****Third Semester***

- (3) **IT 230** (Industrial Supply Chain Management)
  - (3) **MET 242** (Manufacturing Processes II)
  - (3) **OLS 252** (Human Relations in Organizations)
  - (4) **PHYS 218** (General Physics)
  - (3) Science selective
- (16)

***Fourth Semester***

- (3) **ECET 214** (Electricity Fundamentals)
  - (3) **ECON 210** (Principles of Economics)
  - (3) **IT 281** (Industrial Safety)
  - (3) Math or computing selective
  - (3) Science selective
- (15)

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**Junior Year**


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***Fifth Semester***

- (3) **AT 263** (Fluid Power Systems)
- (3) **CIMT 300** (Applications of Automation in Manufacturing)
- (3) **IT 342** (Introduction to Statistical Quality)
- (3) **MGMT 190B** (Accounting Principles)
- (3) **MGMT 323** (Introduction to Marketing Analysis)

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(15)

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***Sixth Semester***

- (3) **IT 330** (Industrial Sales and Sales Management)
- (3) **IT 332** (Purchasing, Inventory, and Warehouse Management)
- (3) **IT 345** (Automatic Identification and Data Capture)
- (3) **IT 381** (Total Productive Maintenance)
- (3) **ENGL 420** (Business Writing)

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(15)

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**Senior Year**


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***Seventh Semester***

- (3) **IT 432** (Financial Transactions in Distribution)
- (3) **IT 434** (Global Transportation and Logistics Management)
- (3) Technical elective
- (3) Communication elective (300-level or above)
- (3) Free elective

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(15)

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***Eighth Semester***

- (3) **IT 435** (Distribution Management Policy)
- (12) Free electives

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(15)

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**Technology Education (B.S.)**

The technology education program is designed to prepare students for a teaching career in secondary schools. The transformation to technology education continues to provide all students with basic knowledge and skills needed for the next millennium. Students are prepared to teach in the following areas: communication, construction, manufacturing, and transportation.

Technology education is a hands-on program using an investigative, design-and-construct, problem-solving approach to teaching. Students learn about the resources, systems, and products of technology. The curriculum is designed to allow students to teach in a laboratory setting, using modern technological tools.

The technology education program is accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Indiana Professional Standards Board (IPSB). There is a very high demand for technology education teachers nationwide; Indiana has reciprocal licensing agreements with 40 states, giving technology education graduates teaching opportunities across the country. Opportunities abound for students considering a technology education teaching career.



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## Technology Education (B.S.)

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### Credit Hours Required for Bachelor's Degree: 122

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#### Freshman Year

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##### *First Semester*

- (3) **COM 114** (Fundamentals of Speech Communication)
- (4) **ENGL 106** (First-Year Composition)
- (3) **IT 272** (Foundations of Technology Education)
- (3) **MA 153** (Algebra and Trigonometry I)
- (3) Technical elective

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(16)

##### *Second Semester*

- (3) **CGT 110** (Computer Graphics Communications)
- (3) **IT 276** (Teaching Design and Communications Technology)
- (3) **MA 154** (Algebra and Trigonometry II)
- (3) **SOC 100** (Introductory Sociology)
- (3) Technical elective

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(15)

#### Sophomore Year

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##### *Third Semester*

- (2) **EDCI 270** (Introduction to Educational Technology and Computing)
- (1) **EDCI 271** (Classroom Applications of Educational Technology)
- (3) **EDST 200** (History and Philosophy of Education)
- (3) **IT 275** (Teaching Power, Energy, and Transportation Technology)
- (3) Science selective
- (3) Technical elective

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(15)

##### *Fourth Semester*

- (3) **EDCI 205** (Exploring Teaching as a Career)\*
- (3) **EDCI 285** (Multiculturalism and Education)\*
- (3) **IT 277** (Teaching Manufacturing Technology)
- (3) **PSY 120** (Elementary Psychology)
- (3) Technical elective

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(15)

#### Junior Year

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##### *Fifth Semester*

- (3) **ECET 214** (Electricity Fundamentals)
- (3) **EDPS 235** (Learning and Motivation)†
- (3) **EDPS 265** (The Inclusive Classroom)†
- (3) **IT 278** (Teaching Construction Technology)
- (3) International understanding selective

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(15)

##### *Sixth Semester*

- (3) **CIMT 400** (Computer Integrated Manufacturing)
- (3) **COM 315** (Speech Communication of Technical Information)
- (2) **EDCI 450** (Techniques of Coordination in Cooperative Vocational Education)
- (3) **IT 371** (Instructional Planning and Evaluation)
- (4) **PHYS 218** (General Physics)

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(15)

#### Senior Year

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##### *Seventh Semester*

- (3) **ENGL 421** (Technical Writing)
- (3) **IT 372** (Teaching Civil Engineering and Architecture)
- (3) **IT 471** (Managing the Technology Education Laboratory)
- (3) **IT 472** (Methods of Teaching Technology Education)
- (3) Science selective

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(15)

##### *Eighth Semester*

- (16) **EDCI 498G** (Supervised Teaching in Technology Education)‡

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\* These courses are Block I courses and must be taken together.

† These courses are Block II courses and must be taken together.

‡ No undergraduate may be enrolled in this course until he or she has been admitted to teacher education and a copy of this acceptance is on file with the advisor.

## Vocational-Industrial Teaching (B.S.)

The vocational-industrial teaching curriculum is a part of the total Indiana program of vocational education. Vocational-industrial teachers must be occupationally competent in one of many skilled and technical crafts found in industry in the United States. In order to qualify for the vocational teaching license, the student must have completed at least three years of work above the learner level in a craft, skilled trade, or some other type of industrial occupation, plus

the general and professional education courses specified by the Indiana Professional Standards Board. The plan of study, when completed, qualifies the student for a provisional trade and industrial education teacher license.

Individuals interested in pursuing the vocational-industrial teaching curriculum should consult the department for a full explanation of details and procedures.

## Department of Mechanical Engineering Technology

The Department of Mechanical Engineering Technology offers distinctive engineering technology programs that are designed specifically to meet the needs of today's most demanding industrial environments. These programs include mechanical engineering technology (MET) and manufacturing engineering technology (MFET). The vision of the department is to be the national leader in mechanical and manufacturing engineering technology education through excellence in teaching, applied research and scholarship, and professional service. The mission of the department is to educate and graduate students who become engineering technicians and technologists proficient in the fundamental principles of science and engineering and in their practical applications in industry to meet the needs of Indiana, the nation, and the world.

Engineering technology programs stress the application and implementation of technology using a hands-on approach with a solid foundation

in mathematics and physical sciences. Engineering technology education focuses primarily on the applied aspects of science and engineering aimed at preparing graduates for careers in product improvement, industrial processes, and plant operations. The Department of Mechanical Engineering Technology faculty members have advanced degrees as well as significant industrial experience in their areas of expertise. Students have the opportunity to learn from these well-educated practicing professionals.

Six professional practice certificate programs are available to both MET and MFET students. Professional practice (PPT) students may alternate semesters of relevant work experience with classroom studies, complete a series of internships, or work for a year before completing their degree. These work sessions provide students with the opportunity to gain on-the-job experience, earn credits toward graduation, and help pay their college expenses.

## Mechanical Engineering Technology (A.S. and B.S.)

The MET program focuses on the methods, materials, machinery, and manpower needed to solve real-world problems. The program is focused on providing graduates with skills to develop and implement technological solutions in the areas of product design and development, manufacturing, manufacturing processes, quality control, materials, fluid power, heat power, mechanics, and cost analysis.

The educational objectives of the A.S. and B.S. degree programs in MET are to produce graduates who:

- Deliver services and support to industry by applying technical knowledge, problem-solving techniques, and hands-on skills in traditional and emerging areas of the mechanical discipline.
- Are active participants in ongoing professional development, professional growth, and increasing professional responsibility.
- Communicate ideas to technical and nontechnical people.
- Work in industrial teams.
- Work within the accepted standards of professional integrity.

Mechanical engineering technicians work with scientists and engineers as valuable members of professional teams. Engineering technicians have practical skills and often begin their careers with assignments in simple design, product testing, computer-aided drafting, or customer service. Graduates accept jobs with titles such as laboratory technicians, engineering aides, plant maintenance personnel, designers/CAD specialists, production assistants, and technical salespeople. With additional experience, promotion is possible into positions such as industrial supervisors, machine and tool designers, technical buyers, production expeditors, and cost estimators.

Students who complete the work for an A.S. degree in mechanical engineering technology can continue in the MET program for approximately two years and earn a B.S. degree. The program provides additional study in mechanical engineering technology plus courses that provide background in related technical and nontechnical topics essential in modern industry. Graduates fill a variety of technical positions, i.e., product design/development, process design/development, plant operations, facilities management, quality assurance, field technical service, production supervision, technical sales, marketing, research, etc.

The department provides programs in mechanical engineering technology at a number of statewide locations. The MET associate degree is offered at Columbus, South

Bend, Kokomo, Muncie, New Albany, and Richmond.

The plan of study for the two-year A.S. degree program constitutes the first two years of the four-year B.S. degree program; most students earn both degrees. It is common to use the term “mechanical engineering technologist” to designate the graduates of the four-year B.S. degree program and “mechanical engineering technician” to designate graduates of the two-year A.S. degree program.

Many students transfer into MET from other programs at Purdue and from other institutions as well. Graduates of both the A.S. and B.S. degree programs are in great demand by such firms as Babcock & Wilcox, American Axle Manufacturing, Cessna Aircraft, Cummins, General Electric, Johnson Controls, Caterpillar, Motorola, TRW Automotive, U.S. Steel, Honda, Wabash National, and Daimler-Chrysler.

### *Accreditation*

The A.S. and B.S. mechanical engineering technology programs at the West Lafayette location and the A.S. MET program at the New Albany location are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012. Telephone (410) 347-7700; fax (410) 625-2238; e-mail [tac@abet.org](mailto:tac@abet.org); Web site [www.abet.org](http://www.abet.org).

## **Mechanical Engineering Technology (B.S.)**

### **Credit Hours Required for Bachelor's Degree: 127**

#### **Freshman Year**

##### *First Semester*

- (3) **CGT 110** (Technical Graphics Communications)
- (5) **MA 159** (Precalculus)
- (3) **MET 141** (Materials I)
- (1) **MET 162** (Computational Analysis Tools in MET)
- (3–4) First-year composition selective
- (15–16)

##### *Second Semester*

- (3) **MA 221** (Calculus for Technology I)
- (3) **MET 102** (Production Design and Specifications)
- (3) **MET 111** (Applied Statics)
- (3) **MET 142** (Manufacturing Processes I)
- (4) **PHYS 220** (General Physics)
- (16)

## Sophomore Year

### *Third Semester*

- (3) **ECET 214** (Electricity Fundamentals)
- (4) **MET 211** (Applied Strength of Materials)
- (3) **MET 213** (Dynamics)
- (3) **MET 242** (Manufacturing Processes II)
- (4) **PHYS 221** (General Physics)

(17)

### *Fourth Semester*

- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **MET 214** (Machine Elements)
- (3) **MET 220** (Heat/Power)
- (3) **MET 230** (Fluid Power)
- (3) Humanities and social science elective

(2–3) Technical selective

(17–18)

## Junior Year

### *Fifth Semester*

- (3) **CHM 111** (General Chemistry)
- (3) **C&IT 175** (Visual Programming)
- (3) **MA 222** (Calculus for Technology II)
- (3) **MET 320** (Applied Thermodynamics)
- (3) Technology and society elective

(15)

### *Sixth Semester*

- (3) **ECON 210** (Principles of Economics)
- (3) **MET 313** (Applied Fluid Mechanics)
- (3) **MET 344** (Materials II)
- (3) **MET 382** (Controls and Instrumentation for Automation)
- (3) **STAT 301** (Elementary Statistical Methods)

(15)

## Senior Year

### *Seventh Semester*

- (3) **IET 451** (Monetary Analysis for Industrial Decisions)
- (3) Interdisciplinary or basic science elective
- (6) MET electives
- (3) OLS/MGMT elective

(15)

### *Eighth Semester*

- (3) **COM 320** (Small Group Communication)
- (3) **ENGL 421** (Technical Writing)
- (3) Humanities and social science elective
- (6) MET electives

(15)

## Manufacturing Engineering Technology

The MFET program focuses on the dynamic fields of automated manufacturing, systems integration, materials handling, and manufacturing operations. The program blends the study of mechanical engineering technology, electrical and computer engineering technology, computer graphics technology, and information systems with program-specific courses in automated manufacturing, operations planning, and systems integration. Graduates are uniquely qualified to meet the automation challenges experienced by today's most demanding industries. MFET accomplishes this through experienced-based study in the application of computers in design, operations planning, manufacturing processes, process control, quality, project management, and machine and system integration.

A manufacturing system can encompass all operations from the design and order entry of a product to the shipment and billing of the product. If implemented effectively, the system can lead to significant cost reductions and better quality. The MFET curriculum concentrates on the study of individual subsystems including control systems, materials handling systems, planning systems, robotic systems, computer-aided processing systems, automated inspection and identification systems, business systems, and their integration.

Students who complete the work for an A.S. degree in manufacturing engineering technology can continue in the MFET program for approximately two years and earn a B.S. degree. The B.S. degree program prepares graduates for employment opportunities in a

multitude of industries and service areas that apply computer automation. Graduates of this degree program are better able to understand the relationships of the various manufacturing subsystems studied in the A.S. degree program and additionally possess the ability and understanding necessary to further integrate these subsystems into a fully functional integrated manufacturing system.

The educational objectives of the A.S. and B.S. degree programs in MFET are to produce graduates who:

- Deliver services and support to industry by applying technical knowledge, problem-solving techniques, and hands-on skills in traditional and emerging areas of the manufacturing discipline.
- Are active participants in ongoing professional development, professional growth, and increasing professional responsibility.
- Communicate ideas to technical and non-technical people.
- Work in industrial teams.
- Work within the accepted standards of professional integrity.

The program operates a unique, nationally recognized automated manufacturing laboratory with many state-of-the-practice capabilities. The facility is equipped with a fully functional, 1,400-square-foot integrated manufacturing system complete with industrial grade robots, CNC machine tools, programmable logic controllers, conveyor system, and various supporting peripheral technologies. This equipment and software enables students to gain first-hand experience with everything from the fundamentals of programming an individual piece of equipment or software, to the more complex tasks associated with planning, programming, and implementing a fully integrated system. The facility supports the educational objectives of the program and promotes interdisciplinary manufacturing development and discovery.

The MFET program provides graduates with the solid technical foundation necessary to ensure their success in a wide variety of employment opportunities. Program graduates are able to fill a wide variety of positions, ranging from the application of computer automated manufacturing equipment and software to the programming and development of a fully integrated manufacturing system. Graduates excel in positions related to manufacturing engineering, process/control systems design, automated equipment engineering, layout and material handling, automated systems engineering and development, production engineering, manufacturing systems implementation, manufacturing systems integration, and technical sales.

Graduates of the MFET program are in great demand by such firms as CIM Systems, CTA Integration, Cornerstone Controls, Caterpillar, Dell Computers, Depuy, Eli Lilly, Ethicon, Ford Motor Company, Guide Corporation, General Motors, Honda of America, TRW, Rockwell Automation, Saturn, and Shuttleworth.

### *Associate of Science Degree*

An associate of science (A.S.) degree is offered in manufacturing engineering technology at West Lafayette. Students in the A.S. program follow the plan of study that is similar to the first two years of the four-year plan of study.

### *Accreditation*

The A.S. and B.S. manufacturing engineering technology programs at West Lafayette are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012. Telephone (410) 347-7700; Fax (410) 625-2238; e-mail [tac@abet.org](mailto:tac@abet.org); Web site [www.abet.org](http://www.abet.org).

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## Manufacturing Engineering Technology (B.S.)

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### Credit Hours Required for Bachelor's Degree: 125

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#### Freshman Year

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##### *First Semester*

- (3) **CHM 111** (General Chemistry)
  - (1) **CIMT 100** (Introduction to Manufacturing Technology)
  - (5) **MA 159** (Precalculus)
  - (3) **MET 141** (Materials I)
  - (2) Computer graphics selective
  - (3) English composition selective
- 
- (17)

##### *Second Semester*

- (3) **C&IT 175** (Visual Programming)
  - (3) **ECET 214** (Electricity Fundamentals)
  - (3) **IT 104** (Industrial Organization)
  - (3) **MA 221** (Calculus I)
  - (1) **MET 162** (Computational Analysis Tools in MET)
  - (3) Computer graphics selective
- 
- (16)

#### Sophomore Year

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##### *Third Semester*

- (3) **CIMT 243** (Automated Manufacturing I)
  - (3) **CIMT 246** (High Performance Manufacturing)
  - (3) **COM 114** (Speech Communications)
  - (3) **MET/CIMT 242** (Manufacturing Processes II)
  - (4) Physics selective
- 
- (16)

##### *Fourth Semester*

- (3) **CIMT 244** (Automated Manufacturing II)
  - (3) **CIMT 248** (Automated Manufacturing III)
  - (4) **MET 212** (Applications of Engineering Mechanics)
  - (3) Statistics or quality selective
  - (3) Humanities/social science elective
- 
- (16)

#### Junior Year

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##### *Fifth Semester*

- (3) **C&IT 305** (Information Technology)
  - (3) **ECET 233** (Electronics and Industrial Controls)
  - (3) **MGMT 190B** (Accounting Principles)
  - (3) C&IT selective
  - (3) Science selective
- 
- (15)

##### *Sixth Semester*

- (3) **CIMT 342** (Advanced Manufacturing Processes and Practices)
  - (3) **CIMT 374** (Manufacturing Integration I)
  - (3) **ENGL 421** (Technical Writing)
  - (3) **IET 451** (Monetary Analysis for Industrial Decisions)
  - (3) **MET 230** (Fluid Power)
- 
- (15)

#### Senior Year

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##### *Seventh Semester*

- (3) **CIMT 474** (Manufacturing Integration II)
  - (3) **CIMT 480** (Project Planning for Integration)
  - (3) English/communication selective
  - (3) Interdisciplinary selective
  - (3) Humanities/social science elective
- 
- (15)

##### *Eighth Semester*

- (3) **CIMT 481** (Integration of Manufacturing Systems)
  - (3) OLS selective
  - (3) Humanities/social science elective
  - (3) Technical elective
  - (3) Free elective
- 
- (15)

## Department of Organizational Leadership and Supervision

The Department of Organizational Leadership and Supervision (OLS) at Purdue is the leading bachelor-degree-granting program in the country that prepares students for their first professional-level position in leadership.

OLS is one of eight departments in the College of Technology. The program offers a highly individualized, practical, “real world” approach to leadership, emphasizing quality, interpersonal skills, and change implementation with a flexible curriculum that allows students to specialize in their areas of interest and talent. The courses in human relations, leadership, management of change, conflict resolution, entrepreneurship, quality and productivity, self-directed teams, interpersonal and organizational communication, and training and development help create a well-rounded student.

The OLS program also offers a pragmatic, innovative, and flexible approach to the student’s education, with opportunities for interaction between students, faculty, and the outside world of work. The relatively small classes, taught primarily by full-time faculty with a variety of professional backgrounds, emphasize the well-rounded structure of the OLS department. Also, individualized, personalized counseling is stressed.

A B.S. degree from the OLS program helps graduates when entering first-line positions in production control, production supervision, quality control, and industrial engineering. Graduates also find employment in general

management, military service, customer service, human resources management, sales, and financial services. Others choose to continue their education into advanced degree programs. Purdue University’s OLS program is a source of professional talent for leadership positions in business, industry, government, and other organizations.

The OLS department offers programs at College of Technology statewide locations in Anderson, Columbus, Kokomo, Lafayette, New Albany, Richmond, and South Bend. An OLS certificate (27 credit hours) is available at several of these locations, where the program targets full-time employees who want to equip themselves for upward mobility into leadership positions.

An associate of science degree (63 credit hours) is available in OLS at West Lafayette and at College of Technology statewide locations. This program primarily serves as an entry-level avenue for individuals who are currently employed and who wish to prepare themselves for future leadership/supervisory programs; or as a dual-degree program option for non-OLS majors who seek to augment their primary program area by preparing themselves for leadership positions in their respective disciplines.

For more information about the Department of Organizational Leadership and Supervision visit [www.purdue.edu/tech/ols](http://www.purdue.edu/tech/ols).

## Organizational and Leadership Supervision (B.S.)

### Credits Required for Bachelor’s Degree: 123

#### Freshman Year

##### First Semester

- (3) **COM 114** (Fundamentals of Speech Communication)
- (5) **MA 159** (Precalculus)\*
- (1) **OLS 100** (Introduction to Organizational Leadership)†
- (3) **OLS 252** (Human Relations in Organizations)
- (3) English composition selective‡

(15)

##### Second Semester

- (3) **C&IT 136** (Personal Computing Technology and Applications)
- (3) **OLS 274** (Applied Leadership)
- (3) **OLS 284** (Leadership Principles)
- (3) **OLS 325** (Meeting Management)
- (3) **PSY 120** (Elementary Psychology)
- (3) Free elective

(18)

\* Students may substitute MA 153 and 154.

† Course required of incoming freshmen, when offered.

‡ Credit hours shown are a minimum. Actual credit hours may be higher for some courses.

## Sophomore Year

### Third Semester

- (3) **ACEG 217** (Economics) **or**  
**ECON 210** (Principles of Economics)
  - (3) **OLS 386** (Leadership for Organizational Change)
  - (3) **OLS 388** (Leadership through Teams)
  - (3) **SOC 100** (Introductory Sociology)
  - (3) Laboratory science elective
- 
- (15)

### Fourth Semester

- (3) **OLS 345** (Critical Thinking in Organizations)
  - (3) **OLS 376** (Human Resource Issues)
  - (3) **STAT 301** (Elementary Statistical Methods) **or**  
**IT 342** (Introduction to Statistical Quality)
  - (3) Technical elective
  - (3) Free elective
- 
- (15)

## Junior Year

### Fifth Semester

- (3) **OLS 477** (Conflict Management)
  - (3) **MGMT 190B** (Accounting Principles)
  - (3) OLS experiential requirement\*
  - (3) OLS selective
  - (3) Technical elective
- 
- (15)

### Sixth Semester

- (3) **IT 450** (Production Cost Analysis) **or**  
**MGMT 201** (Management Accounting I)
  - (3) **OLS 484** (Leadership Strategies for Quality and Productivity)
  - (3) COM selective
  - (3) OLS selective
  - (3) Technical elective
- 
- (15)

## Senior Year

### Seventh Semester

- (3) **ENGL 420** (Business Writing) **or**  
**ENGL 421** (Technical Writing)
  - (3) **OLS 450** (Project Management for Organizational and Human Resource Development)
  - (3) **OLS 456** (Leadership in a Global Environment)
  - (3) **PHIL 120** (Critical Thinking) **or**  
HIST or POL selective
  - (3) Free elective
- 
- (15)

### Eighth Semester

- (3) **OLS 440** (Leading with Integrity)
  - (3) English selective
  - (3) OLS selective
  - (6) Technical electives
- 
- (15)

\* *Experiential courses are OLS 362 (Cooperative Education), OLS 467 (Supervised Practicum), OLS 491 (Internship Program), or OLS 490 (Individual Research Problems).*

*Notes: All students must complete a minimum of 32 hours of 300-level or higher courses on the West Lafayette campus in order to graduate. Responsibility for completing graduation requirements is solely that of the student. Students must be registered for CAND 991 the semester of graduation.*



## Information about Courses

Official Purdue University course information is available on the Web at [www.purdue.edu/purdue/course\\_info](http://www.purdue.edu/purdue/course_info). Click on the “Course Information — All Campuses” link at the top of the page.

The Official Purdue University Course Repository is maintained by the Office of the Registrar and is updated instantaneously. It contains a multitude of information, including course descriptions and requisites for retired, current, and future courses offered at the West Lafayette campus as well as at Purdue Calu-

met, Purdue North Central, Indiana University-Purdue University Fort Wayne, Indiana University-Purdue University Indianapolis, and the College of Technology locations around the state.

The course information available online is organized by campus, program, and subject area, which enables you to tailor your search.

You also may want to consult your academic advisor if you have questions about the courses required for your plan of study.

## College of Technology Administration, Faculty, and Teaching Staff

### Administration

**Dennis R. Depew, *Ph.D.***, Dean of the College of Technology

**Gary R. Bertoline, *Ph.D.***, Assistant Dean for Graduate Studies

**Melissa J. Dark, *M.S.***, Assistant Dean for Planning and Research

**M. Niaz Latif, *Ph.D.***, Assistant Dean for Statewide Technology

**Michael T. O’Hair, *Ed.D.***, Associate Dean for Engagement

**Mary A. Sadowski, *Ph.D.***, Associate Dean for Undergraduate Programs and Instruction

### Heads of Instructional Departments

**Lonnie D. Bentley, *M.S.***, Head of the Department of Computer and Information Technology

**Thomas Q. Carney, *Ph.D.***, Head of the Department of Aviation Technology

**Bradley C. Harriger, *M.S.***, Director of the College of Technology Manufacturing Center

**John R. Hartin, *M.S.E.E.***, Head of the Department of Mechanical Engineering Technology

**Robert J. Herrick, *M.S.E.E.***, Head of the Department of Electrical and Computer Engineering Technology

**Matthew P. Stephens, *Ph.D.***, Interim Head of the Department of Industrial Technology

**Marvin I. Sarapin, *Ph.D.***, Head of the Department of Computer Graphics Technology

**Robert F. Cox, *Ph.D.***, Head of the Department of Building Construction Technology

**William G. Krug, *M.S.***, Interim Head of the Department of Organizational Leadership and Supervision

### Aviation Technology

**T. Q. Carney**, Head of the Department

**Professors:** T. Q. Carney, *Ph.D.*; T. K. Eismín, *M.S.*; D. W. Lopp, *M.S.*; M. S. Nolan, *M.S.*; T. W. Wild, *M.S.*; J.P. Young, *M.S.*

**Professors Emeriti:** W. P. Duncan, *M.S.*; C. F. Holleman, *B.S.*; D. R. James, *B.S.*; D. C. Latia, *M.S.*; J. A. Marchand, *B.S.*; J. R. Maris, *B.S.*; S. J. Rans, *M.B.A.*; I. E. Treager, *M.S.*

**Associate Professors:** G. M. Eiff, *Ph.D.*; R. O. Fanjoy, *Ph.D.*; L. W. Gross, *M.S.*; T. C. Hagovsky, *Ph.D.*; M. L. Leasure, *M.S.*; D. B. Oderman, *Ph.D.*; D. A. Petrin, *M.S.*; D. L. Stanley, *M.S.*; R. L. Sterkenburg, *M.S.*; J. M. Thom, *M.S.*; R. E. Thompson, *Ph.D.*; B. W. Wulle, *M.S.*

**Assistant Professors:** B. J. Dillman, *M.S.*; S. Dubikovsky, *M.S.*; R. M. Grundman, *B.S.*; R. M. Hendricks, *M.S.*; P. J. Mick, *M.S.*

**Clinical Assistant Professors:** M. W. Suckow, *M.S.*

**Advanced Aviation Education Specialists:** N. E. Derhammer, *B.S.*; J. B. Oyler, *M.S.*

**Simulator Continuing Lecturers:** N. Derhammer, *B.S.*; L. Martin, *B.S.*; J. Oyler, *M.S.*; D. Terry, *A.S.*

**Aviation Education Specialists:** T. A. Byron, *A.S.*; R. E. Cassens, *B.S.*; J. E. Cevela, *M.S.*; T. DeYoung, *B.S.*; G. Fleming, *B.S.*; J. W. Schwecke, *M.S.*; A. Teich, *B.S.*; B. Wissel, *B.S.*

## Building Construction Management Technology

**R. F. Cox**, Head of the Department

**Professors:** Z. Baha, *Ph.D.*; R. F. Cox, *Ph.D.*; W. G. Crawford, *M.S.*; J. J. Lew, *M.S.C.E.*; S. D. Schuette, *M.S.*

**Professors Emeriti:** P. L. Glon, *M.S.C.E.*; T. A. Hood, *M.S.*; M. May, *M.S.C.E.*; D. D. Moss, *Ph.D.*

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 Botany and Plant Pathology  
 Entomology  
 Food Science  
 Forestry and Natural Resources  
 Horticulture and Landscape Architecture  
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 Technology  
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 Mechanical Engineering Technology  
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Basic Medical Sciences  
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