RESOURCES AND SPECIAL PROGRAMS

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THE GATEWAY PARK

Located near the intersection of I-190 and I-290 in Worcester, the Gateway Park is transforming a 12-acre former industrial site into a mixed-use destination for life sciences and biotech companies and the people who work for them. The project will include five life sciences buildings totaling 500,000 square feet of flexible, adaptable lab space designed to meet the needs of research organizations; 241,000 square feet of market rate, loft condominiums; and several planned retail establishments. The first building, the WPI Life Sciences and Bioengineering Center, was completed in spring 2007; additional buildings are in the planning stages.

In fall 2007, the Gateway Park won two major national awards for excellence in designing the re-use of former industrial sites. Undergraduate projects in the life sciences are conducted here as well as in Goddard Hall.

For more information on the Gateway Park, see the website at http://www.gatewayparkworcester.com/index2.html.

SPECIAL PROGRAMS FOR FIRST YEAR STUDENTS

INSIGHT PROGRAM

In WPI’s Insight Program, groups of 25-30 first year students are advised by a faculty mentor who makes a real commitment to these students during the first two terms. Each faculty advisor works with two upper class students, a Community Advisor and a Resident Advisor. Together they plan and run a number of activities for the first year students, frequently on the residence hall floor. Examples of these activities include workshops on time management, study skills, or test-taking strategies, as well as social events such as laser tag, pizza parties and apple picking. The Insight program purposefully blends the academic and social aspects of life at WPI, helping students form a strong support network.

GREAT PROBLEMS SEMINARS

This is a two course sequence designed to serve as an introduction to project work and university level research with a focus on themes of global importance. Each seminar has at its core an important problem. Students explore the complexity of our global issues, and demonstrate their ability to solve some aspect of the big problem. The skills the students develop are exactly what they need to be successful both in project work at WPI and in their future careers.

Examples: In Food Sustainability, students and faculty focus on issues surrounding food: nutrition, production, economics, and policy issues. Student projects have included plans for urban gardens, extending Meals on Wheels to younger but non-mobile seniors and nutritional information in the dining hall.

In the Power the World, the production, distribution and use of all forms of energy and associated ethical issues are reviewed. Student projects have included stove design for indigenous people, improvements on solar powered emergency medical devices and energy audits of campus buildings.

Themes will change from year to year. Enrollment is limited.

DISCOVERING MAJORS AND CAREERS

Discovering Majors and Careers is a class for first year students undecided about academic majors. This 1/12 unit course can be taken on top of a regular course load and is offered in B and C terms. Students enrolled in this course will utilize a variety of tools including self-assessments, panels, campus resources, and informational interviews with alumni to help identify personal interests, WPI majors, related careers, and life goals. The program has a terrific track record in choosing majors that align with interests and skills.

ADDITIONAL RESOURCES ON THE WEB

The Undergraduate Programs Web Site (www.wpi.edu/Academics/Undergraduate/)
The Academic Advising Office (www.wpi.edu/+OAA)
The First Year Web Site (www.wpi.edu/+FYE)

GRADUATE COURSES

WPI students may enroll in graduate courses as part of their regular undergraduate studies without being admitted to the graduate program. An exception: In order to enroll in graduate courses offered by the Robert A. Foisie School of Business, the student must have been admitted to a dual BS/MS program, regardless of department. Graduate courses applied toward the undergraduate degree are awarded undergraduate units with a conversion rate of 1 graduate credit = 1/6 undergraduate unit.

COMBINED BACHELOR/MASTER’S PROGRAM

INTRODUCTION

WPI undergraduates can begin work on a graduate degree by enrolling in a combined Bachelor’s/Master’s program. This accelerated course of study allows students to obtain an MS degree after only five years of full-time work (i.e., typically one year after completion of the BS). Students often obtain the BS and MS in the same field or department, but with careful planning some students complete the combined BS/MS program in two different fields; the combination of a BS in Civil Engineering and an MS in Fire Protection Engineering is a common example. (Throughout this section, “MS” will be used to refer to all Master’s-level degrees; most students who complete the combined program obtain the MS).

PLANNING YOUR PROGRAM

Because BS/MS students use some approved courses to satisfy the requirements of both degrees simultaneously, it is crucial for them to plan their curriculum early in their undergraduate career.

The specific course and MQP requirements for a BS/MS program are determined individually, so students should consult with their own advisor as well as the graduate coordinator in the department in which they plan to pursue their MS degree early in their Junior year. This consultation, or series of consultations, should produce a slate of approved undergraduate courses that will be used for graduate credit. Sometimes the instructors of
these courses will ask BS/MS students to complete additional work, or will otherwise hold them to higher standards of achievement.

A student’s advisor and graduate coordinator will also determine what role the MQP will play in the BS/MS program. Sometimes the MQP provides a foundation for a thesis. In cases where the BS and MS are not awarded in the same field, the MQP usually relates to the graduate program’s discipline.

Once the specific course and MQP requirements have been established, students complete a Course Selection Form which is submitted to the relevant department(s) for approval. This written agreement constitutes the set of conditions that must be met for a student to complete the BS/MS program. They are a plan for completing the requirements for both degrees and they will not supersede or otherwise obviate departmental and university-wide requirements for either degree. The completed, signed form must be submitted to the Registrar before the student may matriculate in the combined program.

HOW TO APPLY
Students almost always apply for admission to the BS/MS program in their Junior year, typically after they have established their curriculum and other program requirements and completed the Course Selection Form with their faculty advisors. Applications are submitted to the Office of Graduate Admissions and are processed with all other graduate applications. Once a decision has been reached, the Office of Graduate Admissions will notify the student, usually within six weeks of completing the application.

PROGRAM REQUIREMENTS
Only registered WPI undergraduates may apply for admission to the combined BS/MS programs. Students are considered undergraduates, no matter what courses they have completed, until they have met all of the requirements for the Bachelor’s degree. In order to receive the BS and the MS, all of the requirements for both degrees must be completed.

In most departments a student may take up to four years to complete the Master’s portion of the BS/MS program. There are exceptions, however, so students are advised to discuss their timetable with the appropriate advisor or graduate coordinator. Students who stop registering for classes for an extended length of time may be asked to petition the Committee for Graduate Studies and Research to continue their program.

CREDIT EQUIVALENCE AND DISTRIBUTION
No more than 40% of the credit hours required for the Master’s degree, and which otherwise meet the requirements for each degree, may be used to satisfy the requirements for both degrees. In some departments, students may not double-count more than 30% of their graduate credits. Consult the graduate catalog for the requirements of your program.

Double-counted courses are recorded on the transcript using the credit hours/units and grades appropriate at the graduate or undergraduate levels. For students in the combined BS/MS program, approved undergraduate courses are assigned graduate credit with a conversion rate of 1/3 WPI undergraduate unit = 2 graduate credit hours, while graduate courses applied toward the undergraduate degree are awarded undergraduate units with a conversion rate of 1 graduate credit hour = 1/6 undergraduate unit.

INFORMATION TECHNOLOGY SERVICES
WPI Information Technology Services manages a wide range of information technology resources for the WPI community to support teaching, learning, research and student life. The WPI computer account provides undergraduate students access to technology resources including personal network file storage and acts as their WPI virtual identity while the student is actively registered.

SOFTWARE
Numerous software packages including academic courseware are available to students:
- in public computer labs
- via remote services (Remote Desktop and X11)
- via network download for some applications
- discounted purchase via online store
  WPI partners with Microsoft to provide students access to current Microsoft operating system and business productivity software for use on their personal computers. Students have similar access to anti-virus protection software.

COMPUTER LABS
Over 1300 public computers are available across campus for student use. Many are located in open access labs within academic buildings and throughout the Gordon Library. Public computer labs offer a consistent user interface, software profile, and network access to centralized personal file storage. A Multimedia Lab for high-end digital editing is also housed in the Gordon Library.

PRINTING SERVICES
The Gordon Library Information Commons Print Center is available to meet students’ scanning and printing needs. Additional printers are located throughout the Gordon Library as well as within some computer labs, including HL230, KH202, and KH203.
- Large format poster printing (see Academic Technology Center)
- 3D printing (see Academic and Research Computing)

COLLABORATION AND LEARNING RESOURCES
Collaboration and learning are supported through specialized software and applications, technology-enhanced spaces, and equipment loans.
- Tech Suites: Technology-enhanced meeting spaces designed for student project group use
- Learning Management Software: Blackboard Course web sites, branded as myWPI
- Tools: Exchange (email/calendar/contact management), Office Communications Server (OCS), SharePoint, Fusion-Forge and Media Wiki
- Equipment Loans: includes laptops, digital cameras, camcorders, audio recorders, hard drives, projectors, etc.
- Electronic classrooms and electronically enabled conference rooms
• Web-conferencing tools to allow remote participants to conduct meetings in real-time in a web-based environment from any location with a computer and a high speed Internet connection

TECHNOLOGY SUPPORT AND INSTRUCTION

Technology Helpdesk
Gordon Library, Main Floor; (508) 831-5888; helpdesk@wpi.edu; www.wpi.edu/+Helpdesk
• In-person technology support provided at the Helpdesk
• Requests for assistance can be submitted via phone, email or web

Academic Technology Center
Fuller Labs, Room 117; (508) 831-5220; atc@wpi.edu; www.wpi.edu/+ATC
• In-person technology support on audio-visual equipment loaned out for multi-media projects and campus events sponsored by WPI student organizations
• Large format poster printing
• Digital signage system for announcements pertaining to campus events

Academic and Research Computing
• Instructor led scientific and engineering software applications training offered in computer training classrooms
• Manage academic software and applications campus wide
• 3D printing
• Large format poster printing
• The Design Studio, HL234, offers powerful workstations for CAD/FEA/FEM projects and coursework.
• Data Management and access to cloud collaboration space

IT INFRASTRUCTURE SERVICES

Hosting Services
Hosting Services provides physical and virtual servers to host university services, such as email, learning management system, web site, virtual applications, databases, etc.

Network Operations
Network Operations manages the WPI network, including:
• High speed fiber optic network connects campus buildings including residence halls
• Wireless networking is available in all academic buildings, residence halls, and participating Greek houses
• High speed Internet connectivity including connection to Internet2
• Virtual Private Network (VPN) access provides secure remote access to WPI on-campus information technology resources

ENTERPRISE SYSTEMS

The Enterprise Systems team manages Banner and its related computing systems. These enterprise-wide technology solutions enable administrative departments to run the critical business functions of the University. They provide students and faculty access to student registration, advising, and financial information. They also enable students to update their biographical information, set proxy, and check grades online.

MUSIC AND THEATRE FACILITIES

COMPUTER MUSIC LABORATORIES
Daniels Hall
These laboratories support creative and research activity in a variety of music- and sound-related applications including real-time virtual orchestra design and production techniques. The lab contains hardware and software for multi-track digital recording and editing, signal processing, algorithmic composition, sound synthesis, MIDI sequencing, music notation, and music programming.

GREAT HALL OF ALDEN
Alden Memorial: First Floor
The Great Hall is used for major productions in Music and Theatre. It is the venue for the VOX Musical Theatre performances as well as choral and instrumental performances. In addition, the Hall is sometimes used for festive and gala campus functions.

THE LITTLE THEATRE
Sanford-Riley, Lower Level
Made possible with a major gift from the George I. Alden Trust, the Little Theatre is the University’s first dedicated academic theatre facility. With a combination of flexible and fixed seating, this 99-111 seat facility has a permanent lighting grid and sound system, a high-tech control booth, a greenroom/dressing room, and handicapped accessibility. The Little Theatre is well suited for a wide range of theatrical performances and is the laboratory for the Drama/Theatre division of the Department of Humanities and Arts. Audiences appreciate the intimate relationship they have with the production and the Little Theatre often sells out each show. Undergraduates who work in the Little Theatre may earn academic credit in theatre classes and projects; other students take part in activities in the Little Theatre as part of Masque or Alpha Psi Omega; and many others participate simply for the enjoyment of taking part in a live play onstage. For more information, see http://users.wpi.edu/~theatre.

GREEN ROOM
Alden Memorial: First Floor
Alden Hall houses many of the theatre activities at WPI, both academic and extra-curricular. The Green Room serves as the laboratory for Department of Humanities and Arts, Division of Drama Theatre Performance projects and Sufficiencies, MQPs and IQPs. The sub-basement contains the scene shop and props-storage area and also holds a major work room for Lens and Lights. Students interested in theatre performance and Lens and Lights activities have many resources in Alden Hall.

SPAULDING RECITAL HALL AND OTHER ROOMS FOR REHEARSAL AND PERFORMANCE
Alden Memorial: Lower Level
Alden Center for the Performing Arts houses the Spaulding Recital Hall, Perreault Chamber Rehearsal Room, the Janet Earle Choral Rehearsal Room, three practice rooms, and the Knight Lecture Room. Available for practice are Steinway grand pianos and the Three Manual Aeolian-Skinner pipe organ in the main Concert Hall. There are three concert grand pianos for recitals, ensemble work and concerts. WPI has some instruments that can be made available to students upon request.
OTHER MUSIC FACILITIES
Music facilities also include The Janet Earle Room, The Perreault Chamber Rehearsal Room, the music classroom, practice rooms, computer music labs and storage facilities.

DRAMA/THEATRE RESOURCE LIBRARY
The Department of Humanities and Arts Drama/Theatre Resource Library, housed in Salisbury Labs Room 18 and available as posted, contains publications, magazines, published scripts, and other information to assist students working on projects (MQP, IQP, practica, ISP) in Drama/Theatre. Scripts for current productions can usually be found nearby the Resource Library on the table in the center of the main Humanities and Arts area. Most resource items and display scripts must be used in the immediate area, and this service is not per se a lending library.

GEORGE C. GORDON LIBRARY
The George C. Gordon Library is open over one hundred hours each week during the academic year. The library provides resources and innovative services in support of the teaching, learning and scholarship process at WPI.

The library’s collections support the curriculum and research needs of the WPI community. Currently the library holds thousands of print and electronic journals, a vast collection of electronic books, print books, and research databases which support all areas of the WPI curriculum. The library collection also contains undergraduate project reports, graduate theses and dissertations. Music CDs, DVDs, video games and other media, and bestsellers are available for educational and recreational purposes. The library’s archival and special collections include rare books, artwork, university records, campus publications, faculty and alumni papers, photographs, recordings, memorabilia, and a limited selection of historic video games and consoles. These items are available to students, faculty, and other researchers by visiting the Fellman Dickens Reading Room.

The library catalog, electronic journal and book collections, specialized research databases, course-specific information, and many other resources are available from the library’s web site (http://www.wpi.edu/+library). The web site is the focal point for digital library resources and services. Access to WPI users who are off-campus is available through a simple login.

The staff of Gordon Library offer many services to support student learning. The Research and Instruction staff help students with research problems and questions, offer library instruction and orientation sessions, and provide research consultations to individuals and project groups. Students can request materials not held in Gordon Library through the interlibrary loan service, (ILLiad). WPI students also have access to the collections of other academic libraries within Central Massachusetts with the library’s membership in the Academic and Research Collaborative (ARC). Students can obtain an ARC cross-borrowing card which allows direct borrowing at many regional academic libraries.

The Gordon Library, Academic Technology Center, and the Technology Help Desk provide one stop shopping for student research, information, and technology support in the Information Commons on the library’s main floor. The adjacent Class of 1970 Library Café serves food and beverages.

The library’s four floors contain a wide variety of individual and group study spaces. Tech Suites, which are collaborative work areas equipped with up-to-date technology, can be reserved for student use. Additional group study spaces are located throughout the building. There are also computer workstations configured for group and individual use, many with large monitors for collaborative project work. The Multimedia Lab on the first floor offers specialized multimedia software. The Anderson Instruction Labs are used by staff for training during the day and can be scheduled by student groups for evenings and weekends. The library features both wireless and wired computer network access, with over 125 computers. Special exhibits are offered regularly in the library’s galleries. For more information please visit the library web site at http://www.wpi.edu/+library.

STUDENT SERVICES

STUDENT DEVELOPMENT AND COUNSELING CENTER
The WPI Student Development and Counseling Center (SDCC) provides a wide range of services that are FREE of charge to all students enrolled in classes at WPI. The primary purpose of the SDCC is to provide counseling, educational programming and training, referral, and crisis intervention services to the entire WPI student community focusing on 1) assisting students in their full and complete development as they go through the process of becoming adults so that they may achieve greater levels of personal, academic, and professional success, and 2) assisting students in becoming aware of, and effective in, their roles, relationships, and responsibilities as members of an ever burgeoning global society. The professional staff are trained to help students deal with a variety of issues including:

Situational Problems- poor academic performance; managing stress; time management; relationships with significant others; divorce or other family problems; feelings of loneliness, anger, anxiety, confusion, depression; loss; discrimination; harassment; alcohol or other substance problems; sleep disturbances; medical/physical conditions; learning disabilities.

Crisis-Related Problems- physical and/or sexual assault; impulse control problems; suicidal thoughts or behaviors; traumatizing experiences such as date rape, academic setbacks, or the loss of a loved one.

Developmental Issues- developing self-esteem; establishing personal and/or gender identity; helping to define sexual orientation; managing stress from earlier traumatic events; exploring personal and professional goals.

The SDCC staff can also provide referral services for psychiatric evaluation, psychological and learning disability assessment, or other treatment.

The services of the SDCC are confidential. The mental health professionals and support staff are highly trained and sensitive to students’ privacy and personal concerns.
The SDCC is located at West Street House, 157 West Street, near the corner of Institute Road. Appointments may be made during the academic year (A through E terms) in person or by calling (508) 831-5540. Office hours are 8:30 a.m. to 5:00 p.m. Monday-Friday (8:00 a.m. to 4:00 p.m. June to mid-August). For further information about the SDCC and its services see http://www.wpi.edu/offices/sdcc.html.

ACADEMIC RESOURCES CENTER

WPI’s Academic Resources Center (ARC), located in Daniels Hall, provides academic support services that are designed to enrich and enhance the learning experience of all WPI undergraduate students. Its student-based collaborative learning environment offers individualized assistance in a variety of subjects, as well as a comprehensive peer tutoring program.

The ARC offers individual and group tutoring (MASH) sessions. All peer tutors and MASH Leaders are certified by the College Reading and Learning Association, and help students in a variety of academic subjects. Peer tutors are available by appointment, whereas MASH sessions are drop-in. To schedule an appointment with a peer tutor visit tutortrac.wpi.edu. To view the MASH schedule visit: www.wpi.edu/AA+OAA.

MASH (MATH AND SCIENCE HELP) PROGRAM

MASH is an academic support program for students in mathematics, science, and computer science courses. Offered to all students enrolled in a supported course, MASH provides assistance in regularly scheduled study sessions beginning the first week of the term.

Each group tutoring session is guided by a MASH leader, an undergraduate student who has taken the course before and who, therefore, understands the course material and what the instructor expects. MASH leaders attend lectures, and conduct three 50-minute MASH sessions each week. By attending class and demonstrating effective student behavior, MASH leaders can assist students with the language of the discipline, the integration of lecture and readings, and the development of good study habits.

Through the MASH program, students become actively involved with the content material in a supportive environment. MASH participants master new concepts, learn to put ideas into perspective, and develop a better way to study.

OFFICE OF DISABILITY SERVICES

The mission of the Office of Disability Services is to ensure that all students with disabilities can freely and actively participate in all facets of University life; to provide and coordinate support services that enable students with disabilities to maximize their educational potential and to increase the level of awareness among members of the University so that students with disabilities are able to perform at a level limited only by their abilities, not their disabilities. Our services are confidential and available to any student enrolled in a WPI course. By law, it is the student’s responsibility to identify himself/herself to the Office of Disability Services (ODS) and to provide documentation of their disability by a licensed professional. (For specific information see our Documentation Guidelines on our web-page.) All students who have been admitted to WPI have the opportunity to self-identify and begin the process of formal accommodation approval through our disclosure process, which can be found on our webpage. Students with disabilities who are diagnosed after their admission to WPI or who have need for temporary accommodations due to an injury or other transitory issue must also provide appropriate documentation to the ODS if they wish to receive accommodations.

ODS staff will also consult with students who may wish to seek a formal diagnosis or are looking to learn more about their learning strengths and challenges.

For further information please visit the Disability Services web page at: http://www.wpi.edu/disabilities.

The Office of Disability Services is located on the first floor of Daniels Hall. We are open Monday - Friday 8:30 a.m. - 5:00 p.m. Students may drop-in or call (508) 831-4908 for an appointment.

THE WRITING CENTER

The WRITING CENTER, located at Daniels Hall 116 in the heart of campus, employs 20 trained, peer writing tutors who take the course, Teaching Writing. Through one-on-one tutoring appointments and small group workshops, tutors help undergraduate and graduate students with any type of communication project: course papers and project reports, resumes, dissertations, oral presentations and slides, website and document design, and more. Tutors talk through project goals, help writers brainstorm and organize ideas, provide a critical reader’s feedback, and provide mini-reviews of grammar and punctuation rules. To make an appointment or to find out about special group workshops, visit our site at www.wpi.edu/writing. Faculty interested in designated tutoring for courses should contact Writing Center Director, Ryan Madan, at x6561 or at ryanman@wpi.edu

WRITING COURSES AND ADVISORS

For information on WPI’s writing programs, see Humanities and Arts faculty as follows:

Students interested in the Professional Writing major or the Writing and Rhetoric minor should contact Jennifer deWinter (SL 015) about these programs.

The WPI advisor for undergraduate students whose native language is not English is Esther Boucher-Yip (SL 022).

WORLD WIDE WEB

The WPI World Wide Web server is the campus information system. It contains a great deal of useful information about people and programs at the university, and is updated frequently. In addition, by using the Web, students gain access to a vast universe of information on any subject imaginable. This is why the Web is such a useful research tool for both faculty and students.

WPI’s Web address, or URL, is: www.wpi.edu. Questions about WPI’s Web site should be directed to the Web Development Office, webmaster@wpi.edu.
ENTREPRENEURSHIP

The Collaborative for Entrepreneurship and Innovation (CEI) is a university-wide entrepreneurship program housed in the Robert A. Foisie School of Business. The CEI is the advising home to the student entrepreneurship club and Tech Entrepreneurs. The CEI supports the school’s Tech Advisors Network which nurtures new and prospective ventures launched by WPI students, faculty, and alumni. The role of the CEI is to foster development of entrepreneurial mindsets at WPI. The CEI is driven by its mission and goals as defined below. We are providing students with an integrated experience, informed by a wide network of people and resources. It will help them throughout their careers and help them to be the best entrepreneurs in the world.

MISSION OF THE CEI

The CEI inspires and nurtures people to discover, create, and commercialize new technological products and services, and to create new organizations based on those products and services, thereby advancing economic development and improving society.

GOALS OF THE CEI

We will:

• Attract students and faculty members to WPI who are interested in using inventions and technology to foster new businesses;
• Foster informed risk-taking among our undergraduate and graduate students and others wishing to pursue the dream of entrepreneurship;
• Build bridges between WPI students, staff, faculty, and alumni, and the wider entrepreneurial business community;
• Encourage corporations to develop an environment that celebrates entrepreneurship as a combined act of discovery, creativity, and innovation; and
• Achieve a leadership role among the preeminent entrepreneurship programs in the U.S.

Currently the CEI offers a number of opportunities to WPI students. These include:

• Minors in Entrepreneurship and Social Entrepreneurship through the Robert A. Foisie School of Business and other departments.
• Courses in Entrepreneurship for those who do not wish to pursue a minor.
• MQP and IQP opportunities in Entrepreneurship.
• An external advising team of entrepreneurs and investors who are available to mentor aspiring entrepreneurs among our students.
• A student club, Tech Entrepreneurs.
• Numerous competitions focused on inventions, innovations, business models, and other entrepreneurship-related activities.

For more information on the Collaborative for Entrepreneurship and Innovation, please contact Gina Betti, Associate Director, CEI, at 508-831-5761; gbetti@wpi.edu or Frank Hoy, Director, at 508-831-4998; fhoy@wpi.edu.

STUDENT EXCHANGES

As technology and commerce become increasingly international in outlook, students in engineering, science and management must learn about countries and cultures other than their own. To respond to this need, WPI offers its students an extensive range of opportunities to broaden their academic and cultural perspectives through participation in the Global Perspective Program. WPI also offers traditional exchange programs.

The principal academic emphasis in all exchanges is upon course work. In such programs, students must work closely with their advisor, the academic advisor of the exchange program, and the program coordinator at the site to design an individual program of study. Students have the responsibility of obtaining prior tentative approval from their department that courses taken abroad will count towards departmental distribution requirements. For final transfer credit evaluation, students must provide upon return the necessary detailed information on the content of courses taken abroad and the satisfactory completion of all work. In some exchanges, opportunities exist to complete project work (IQP, MQP, and Humanities and Arts requirement). The exchanges offer exceptional possibilities for projects comparing American and overseas applications of technology and the impact of technology on society. For WPI students on these exchanges, time is usually available for additional travel, before or after the formal academic period.

For more information on these programs, consult with Leanne Johnson in the Interdisciplinary and Global Studies Division or the academic advisor listed for each program.

LANGUAGE REQUIREMENTS

The usual language of instruction at most of the exchange institutions is the official language of the host country. While these institutions may offer a few courses taught in English, most lectures will be given in a foreign language. Thus, exchange students who intend to complete substantial course work must acquire the necessary language background. In some cases intensive language instruction can be arranged on site. In other cases, students acquire the language background through courses taught at WPI or other colleges, or by self-study. A few exceptions exist at some technical universities where the official language of instruction may be English.

UNIVERSITY OF APPLIED SCIENCES; KONSTANZ, GERMANY; EXCHANGE

Students who already know German or are planning to begin studying it have the opportunity to study in Germany for a semester at the Hochschule für Technik, Wirtschaft und Gestaltung (HTWG: university of applied sciences; http://www.htwg-konstanz.de/) in Konstanz, Germany. The city of Konstanz, located at the western end of Lake Constance (in German, der Bodensee) and right on the border with Switzerland, is one of Germany’s most beautiful cities, with a well-preserved medieval and renaissance city center. The snow-covered Alps are visible across the lake and the HTWG campus is on the
bank of the Rhine where it flows out of the lake and heads north. The city is pedestrian friendly, has great food, and there are unlimited opportunities for biking, boating, swimming, skiing, and hiking in the immediate vicinity. Weekend travel to Austria, Italy, and France is easy and Switzerland is literally right across the street. Students who begin their study of German in Terms A, B, C can complete the Humanities and Arts requirement by attending the HTWG in Terms D and E. WPI will not charge these students extra tuition for Term E. Students whose German is already at an intermediate or advanced level may take either advanced language courses or technical courses at the HTWG. Admission to this exchange program is competitive.

**Worcester Consortium Course Cross-Registration**

The Colleges of Worcester Consortium, Inc. consists of the following institutions: Anna Maria College, Assumption College, Becker College, Clark University, College of the Holy Cross, Cummings School of Veterinary Medicine at Tufts University, Massachusetts College of Pharmacy and Health Sciences, Nichols College, Quinsigamond Community College, University of Massachusetts Medical School, WPI and Worcester State College. Full-time WPI students who cross-register for courses at other Worcester Consortium colleges pay no extra fees. Students are limited to one course per semester. The no-charge plan does not include evening colleges or summer school. The Consortium provides shuttle buses which make frequent trips every day to all participating institutions. For cross-registration information and shuttle schedules, visit [www.cowc.org](http://www.cowc.org).

Students interested in registering for Worcester Consortium courses should discuss their program with their advisors, and then obtain regulations and registration forms from the Registrar’s Office.

**Co-Op**

The WPI Cooperative Education Program provides an opportunity for students to alternate time in the classroom with extended periods of paid, full-time, career-related work experience in industry or government agencies. The program, which is optional at WPI, entails work assignments during the summer or during the academic year. The following are the options of duration for undergraduate students:

1. Summer (a minimum of 8 weeks)
2. Summer and A term
3. Summer, A term and B term
4. C term, D term and Summer
5. D term and Summer
6. Summer, A term, B term, C term and D term
7. A term, B term, C term, D term and summer

Most students elect to participate in one co-op assignment, though students may choose to complete up to two. Students who participate in the co-op program can graduate on time especially when they have Advanced Placement coursework and plan ahead. It is recommended that students pre-plan during their first or second year at school. Preparation of a total college plan with the student’s academic advisor is required to ensure compatible scheduling of work periods and academic courses.

In order to qualify for the co-op program, students must meet the following requirements:

1. They must have completed at least 1 term of study at WPI. Seniors may participate in co-op but must have classes to return to after co-op before graduating.
2. They must be in good academic standing (Students cannot be on academic warning or probation)
3. They are only permitted to register for project credit during the co-op assignment with the approval of their academic and project advisors as well as the Career Development Center
4. They must be full-time students of WPI
5. Their Co-op assignment must be related to their major area of study (exceptions can be made if a student includes documentation that their co-op will help advance their career)

Exceptions to any of these requirements may be made by submitting a written petition to the Career Development Center.

**Billing, Financial Aid, and Housing**

Please note that depending on which term(s)/semester(s) you choose to participate in co-op, your tuition, fees, housing, and meal plan charges as well as any type of financial aid (scholarships, loans, work study, etc.) will need to be adjusted. In order to properly plan for your co-op experience, it is highly recommended that you discuss how your billing and financial aid credits will be impacted before and after your participation in a co-op experience. A reduction and/or refund of tuition and fees is not guaranteed and will depend on the co-op term agreement. Students may also be assessed an administrative fee to attend co-op.

**Advantages to Students and Employers**

Co-op offers several advantages to students:

1. Participation in co-op helps students make career-related decisions.
2. Students can test classroom learning in the real world
3. Co-op earnings enable students to pay a significant portion of their college expenses.
4. Students improve their after graduation job prospects by gaining valuable work experience. In fact, more and more companies are using their co-op program to identify candidates for full-time permanent positions when the students graduate and/or seek candidates with co-op experience from other companies.
5. Students develop networking contacts in their area of expertise.

Co-op also offers several benefits to employers:

1. Co-op students can handle assignments that may be difficult for untrained personnel, but that do not require the talents of experienced professionals
2. The program gives employers the chance to judge the actual on-the-job performance of potential permanent employees.
3. Retention rates for permanent employees recruited though a co-op program are higher than for those hired through other routes.

THE CO-OP PROCESS

Students interested in participating in co-op should contact the Career Development Center to set up a co-op information appointment. The following is a list of things that need to be done prior to the CDC processing a co-op application:

1. Be sure the personal and academic profiles in your job finder account are complete in order to search for positions. Please note that a co-op position is not guaranteed, and students are responsible for obtaining their own co-op position.
2. Talk to your faculty advisor to lay out a plan for including co-op in your academic program.
3. Read the terms of understanding in the Cooperative Education Program packet.
4. Write or revise your resume and cover letter
5. Complete the Cooperative Education Program packet including the following items: http://www.wpi.edu/Images/CMS/CDC/Cooperative-education.pdf
   a. Academic Planning Worksheet for Prospective Co-op Students
   b. Traditional Co-op Registration Form
   c. Traditional Co-op Waiver Form (if planning to take courses or do project work while on Co-op)
   d. Copy of the job description
   e. Copy of the offer letter with hourly pay rate, start date and end date, supervisor name, title and contact information

Employers seeking to fill a co-op position provide the CDC with a job description on Job Finder, our web-based system. Students will then apply to those positions through Job Finder by forwarding their resume and cover letter to the appropriate companies. In addition, students can look for co-op experiences on their own initiative. Some employers interview candidates on campus; others review resumes and then invite selected students for on-site interviews. The final hiring decision is left to the employer. The student is free to interview with more than one employer and to identify opportunities outside of WPI’s postings, ultimately choosing among the employment offers received. Once a decision is made, students are required to stop interviewing and applying for other positions and alert pending employers that they are no longer looking.

INFORMATION AND REGISTRATION

Students interested in exploring the possibility of participating in the program should contact:
Career Development Center
Project Center, Lower Level
(508) 831-5260

E-term offers an exceptional opportunity to participate in certain types of project activity on a convenient basis since classrooms and laboratories will be less crowded and outside field work will enjoy better weather conditions. E-term also offers an excellent opportunity to complete a qualifying project through a full-time effort during a single term.

SUMMER SESSION (TERM E)

With course offerings directed at meeting student needs, a variety of sessions, and both traditional and blended classes, E-term provides flexibility for students looking to work over the summer and still take advantage of these academic opportunities. E-term is a great time to
• Get back into good academic standing
• Lighten the load for the next year
• Speed up your time to degree completion
• Stay on track in the BS/MS program

E-term offers an exceptional opportunity to participate in certain types of project activity on a convenient basis since classrooms and laboratories will be less crowded and outside field work will enjoy better weather conditions. E-term also offers an excellent opportunity to complete a qualifying project through a full-time effort during a single term.

Since class sizes are generally smaller in E-term, students will enjoy more individually-oriented course work – a real benefit for classes that students find challenging or courses that are designed to prepare students for more advanced classes in their major.

Students planning to participate in Term E should register at the regular spring registration period. For more information, including payment and financial aid information, visit the E-term webpage at: http://www.wpi.edu/academics/Summer/

Students from other campuses are also invited to take advantage of E-term offerings at WPI. Admission to the summer session does not imply admission to regular academic year programs. Students desiring to continue their work at WPI following the summer session should seek admission following standard WPI admissions procedures issued through the Admissions Office.
Awards and prizes are determined by the academic department or by selected committees.

**COLLEGE AWARDS**

**SALISBURY PRIZE AWARDS**
These historic awards are made to highly meritorious seniors. These awards were established by Stephen Salisbury, a WPI founder and former president of the Board of Trustees.

**TWO TOWERS PRIZE**
This prize is awarded to the student who, through general academic competence, campus leadership, regular course work and special work in research and projects, best exemplifies a combined proficiency in the theoretical and practical union implicit in the Two Towers concept, which is at the heart of WPI’s Two Towers tradition.

**SIGMA XI AWARDS IN ENGINEERING AND SCIENCE**
These awards in engineering and science are given to the students and their advisors for the Major Qualifying Projects which are judged to be the best in originality, contribution to the field, professional competence, and for the most useful applications.

**PRESIDENT’S IQP AWARDS**
These awards are given to student teams whose conception, performance, and presentation of their Interactive Qualifying Projects have been judged outstanding in focusing on the relationships among science, technology, and the needs of society.

**PROVOST’S MQP AWARDS**
These awards offer recognition to those students who have completed outstanding Major Qualifying Projects as a demonstration of their competency in a chosen academic discipline. Each academic department conducts its own competition to select the winners.

**CLASS OF 1879 AWARD**
Endowed by the Class of 1879, this prize is awarded by the Humanities and Arts Department yearly for excellent work in the culminating project for the Humanities and Arts Requirement. Projects must demonstrate exceptional creativity and skill in conceiving, developing, and expressing a theme within any discipline within the humanities and arts.

**UNITED TECHNOLOGIES CORPORATION MINORITY AWARD**
This award is presented to an outstanding minority undergraduate student.

**OUTSTANDING WOMEN STUDENT AWARDS**
*Marietta E. Anderson Award,* an award which is presented to the most outstanding woman student in one of the three lower classes who not only has a superior academic record, but also has been a work-study student, participated in recognized extracurricular activities, and has been a volunteer for college-sponsored activities.

Funds from an anonymous donor provide the following awards to women students preparing for careers in engineering or science. Awards are based on academic excellence, contributions to the WPI community, and professional goals. The awards are named each year for women who have played significant roles at WPI.

**Bonnie-Blanche Schoonover Award,** honoring WPI’s former librarian.

**Ellen Knott Award,** honoring a long-time secretary in the Mechanical Engineering Department.

**Gertrude R. Rugg Award,** honoring WPI’s late Registrar Emerita.

**WILMER L. AND MARGARET M. KRANICH PRIZE**
Students who are seniors or completing their junior year will be nominated by faculty for the annual award. The award will go to a student majoring in engineering, science or management who best exemplifies excellence in the humanities and in the full integration of humanities into his/her undergraduate experience. Double-majors who fulfill one major in Humanities and Arts are not eligible.

**CHARLES O. THOMPSON SCHOLARS**
Named in honor of the first president of WPI, this honor recognizes outstanding performance by first-year students.

To be eligible for membership, students must receive all A’s and B’s, with a minimum of six A’s, in their academic subjects during the first three terms at WPI. Selections are made in Term D.

A cash award is presented to the outstanding first year student. Charles O. Thompson Scholars are eligible to apply for this award by submitting an essay to the Office of Undergraduate Studies during D Term.

**SPECIAL AWARDS**

**ALPHA PHI OMEGA SERVICE AWARD**

**AMERICAN INSTITUTE OF CHEMISTS FOUNDATION Chemistry and Biochemistry**
An award by the New England chapter of the American Institute of Chemists to honor outstanding seniors majoring in chemistry and biochemistry.

**AMERICAN SOCIETY FOR METALS: CHESTER M. INMAN ’14 OUTSTANDING STUDENT AWARD**

**Mechanical Engineering**
The Worcester Chapter of the American Society for Metals presents $200 to a student for excellence in a Major Qualifying Project dealing with processing or materials science.

**HAROLD S. BLACK AWARD**

**Electrical and Computer Engineering**
This award was established in 2001 to honor the memory of inventor Harold S. Black ’21. The award is given by the faculty of the Electrical and Computer Engineering (ECE) Department to one or more ECE seniors who have demonstrated outstanding creativity and enthusiasm in engineering problem solving, practical implementation of problem solutions, and exemplary character in their contributions to the welfare of the WPI community.
CENTRAL NEW ENGLAND AICHE AWARD FOR SIGNIFICANT CONTRIBUTION
Chemical Engineering
This award is given to an individual in recognition of significant contributions to the American Institute of Chemical Engineers.

COMMUNITY SERVICE AWARD PRESENTED IN THE MEMORY OF EDWIN B. COGHLIN '23
Alumni Office
This award recognizes individuals who have demonstrated an extraordinary personal commitment above and beyond their normal involvement on campus in both academic and extracurricular activities.

COMPUTER SCIENCE OUTSTANDING JUNIOR AWARD
Computer Science
This award is presented to a computer science junior who has an excellent academic record and who shows promise for continuing success.

COMPUTER SCIENCE OUTSTANDING SENIOR AWARD
Computer Science
This award is presented to one or more computer science seniors who have an outstanding record and who have contributed to the enrichment and professional development of fellow students.

JAMES F. DANIELLI AWARD
Biology and Biotechnology
This award, given by the Department of Biology & Biotechnology, honors the memory of Dr. James F. Danielli, a former department head and world-famous scholar.

FRANK D. DEFALCO AWARD
Civil and Environmental Engineering
Award to WPI undergraduate Civil Engineering students who has completed two and one half years towards a B.S., interested in career constructed facilities and a member of ASCE student chapter.

ETA KAPPA NU OUTSTANDING STUDENT AWARD
Electrical and Computer Engineering
The electrical and computer engineering honor society presents this award to the outstanding senior and junior in recognition of their academic achievement and their service to the WPI community.

GENERAL CHEMISTRY ACHIEVEMENT AWARD
Chemistry and Biochemistry
This award is given to the student who has completed the freshman chemistry course with superior academic performance. Department award.

ALLAN GLAZER AWARD
Mechanical Engineering
Established in 1992 by the family and friends of Allan Glazer ’47, this award is given to a junior majoring in mechanical engineering who has demonstrated outstanding academic achievement, special ingenuity in problem solving, and enthusiasm for engineering challenges.

GOAT'S HEAD AWARD
Student Government Association
Awarded annually to the outstanding new Senator of the year.

THE ROBERT H. GODDARD AWARD
Physics
Established by the classes of 1908 and 1909 as a memorial to Dr. Goddard, this prize is awarded for outstanding achievement, scholarship, consistent effort and dedication of purpose in both theoretical and experimental areas of physics.

HEALD BROTHERS SCHOLARSHIP
Mechanical Engineering
This scholarship identifies and supports outstanding young men and women who represent, in modern form, the spirit of “Yankee Ingenuity” that characterizes the evolution of the great manufacturing enterprises from the beginnings of the American Industrial Revolution.

ANDREW HOLT MEMORIAL AWARD
Civil and Environmental Engineering
This award is presented to a civil engineering senior who has consistently earned academic honors and who shows excellent promise for success.

STEVEN J. KAHN AWARD
Humanities and Arts
This award is presented to the outstanding senior in the WPI Glee Club in recognition of his contribution, commitment, and unwavering loyalty to the organization.

THE WILLARD ELLIOT LAWTON-SAMUEL JAMES PLIMPTON AWARD
Physics
Established in honor of Professors Lawton and Plimpton, this award is presented to a student who has shown improvement in scholarship, not only in grades but also in depth of understanding.

LINCOLN ARC WELDING FOUNDATION AWARD
Civil and Environmental Engineering
This award recognizes outstanding achievement in solving design, engineering, fabrication, and research problems.

MEDWIN HONORS STRING QUARTET SCHOLARSHIP
Humanities and Arts
Scholarship money is given to the members of the Medwin Honors string Quartet (4 string players, 2 violins, 1 viola, 1 cellist), who are selected by audition each year.

THE ALFRED R. AND JANET H. POTVIN AWARD
Biomedical Engineering
Separate awards are given to the outstanding undergraduate and graduate student in Biomedical Engineering in recognition of their academic performance and their service to WPI and/or the outside community.

CARL F. MEYER IMPROVEMENT AWARD IN CIVIL ENGINEERING
Civil and Environmental Engineering
Established by Professor Emeritus Meyer, this award is presented to the civil engineering senior who has demonstrated the most improvement in academic and professional attitude since entering the department.
RICHARD V. OLSON AWARD
Mathematical Sciences
Established to honor the memory of mathematics Professor Richard V. Olson, this annual award to a WPI sophomore recognizes outstanding performance in basic mathematics courses.

EDWARD C. PERRY AWARD
Mechanical Engineering
This award is given annually to an engineering student or students for an outstanding major qualifying project in the area of mechanical design. The award is made possible through a bequest from Miriam Perry Goll and honors the memory of her father, Edward C. Perry ’04, a design engineer with General Electric Company throughout his professional career.

PI TAU SIGMA AWARD FOR EXCELLENCE
Mechanical Engineering
The mechanical engineering honor society, Pi Tau Sigma, presents this award to the outstanding junior mechanical engineering student.

ROBOTICS ENGINEERING OUTSTANDING JUNIOR AWARD
Robotics Engineering
This award is presented to a robotics engineering junior who has an excellent academic record and who shows promise for continuing success.

ROBOTICS ENGINEERING OUTSTANDING SENIOR AWARD
Robotics Engineering
This award is presented to one or more robotics engineering seniors who have an outstanding record and who have contributed to the enrichment and professional development of fellow students.

SENIOR MATHEMATICAL SCIENCES MAJOR AWARD
Mathematical Sciences
This award is presented to the senior mathematical sciences major who has shown outstanding performance and who has made valuable contributions to the WPI mathematical community.

SOCIETY OF MANUFACTURING ENGINEERING SCHOLARS AWARD
Mechanical Engineering
An SME Student Chapter member, recommended by the faculty and confirmed by the officers of SME chapter 25, who has demonstrated excellent scholarship, leadership, service, potential to contribute to the profession of Manufacturing Engineering.

SOCIETY OF MANUFACTURING ENGINEERING UNDERGRADUATE SCHOLARSHIP AWARD
Mechanical Engineering
Awarded to a 1st, 2nd, or 3rd year SME Student Chapter member, recommended by the faculty and confirmed by the officers of SME chapter 25, who has demonstrated excellent scholarship and commitment.

SOCIETY OF MANUFACTURING ENGINEERS OUTSTANDING STUDENT AWARD
Mechanical Engineering
Awarded to the top three SME Student Chapter members each year, regardless of year, who have not already received the award.

SOCIETY OF MANUFACTURING ENGINEERS MQP AWARD
Mechanical Engineering
An SME Student Chapter member, selected by a panel of practicing manufacturing engineers to have the best MQP in the area of Manufacturing Engineering.

STUDENT-ALUMNI INTERACTION AWARD
Alumni Office
This award is presented by the WPI Alumni Association in recognition of individuals who, through their involvement on campus, have facilitated the continuing development of interaction between students and alumni. Recipients are full-time undergraduate students who have demonstrated extraordinary personal commitment to WPI and the Alumni Association above and beyond the normal involvement on campus.

The award is designed to recognize students who have stepped forward to become leaders in the alumni and student communities and, in doing so, have benefited both WPI students and alumni in a unique and purposeful way.

ACS UNDERGRADUATE AWARD IN ANALYTICAL CHEMISTRY
Chemistry and Biochemistry
Award which is intended to encourage student interest in analytical chemistry and to recognize a student who displays an aptitude for a career in the field. This award is for third-year students.
ENGINEERING SOCIETIES

All engineers are professionals in accordance with the definition of engineering, one of which states that “engineering is the profession in which a knowledge of the mathematical and natural sciences gained by study, experience and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.” Professional engineers also observe a code of ethics, exercise judgment and discretion while providing their services, and are involved in a confidential relationship with their clients. Professional engineers enjoy legal status, use professional titles, and associate together through professional societies.

An excellent way to begin learning about the status of the professional engineer is to join the student branch of a professional society relevant to your interests. At WPI, students are encouraged to join the student branches of such societies as the American Society for Metals (ASM), American Society of Mechanical Engineers (ASME), the Institute of Electrical and Electronic Engineers (IEEE), the American Society of Civil Engineers (ASCE), the American Chemical Society (ACS), American Society of Mechanical Engineers (ASME), the Institute of Industrial Engineers (IIE), the Society of Automotive Engineers (SAE), the Society of Manufacturing Engineers (SME), the Society of Women Engineers (SWE), and the Society of Hispanic Professional Engineers (SHPE). For information on these organizations, see the appropriate department head.

ENGINEERING REGISTRATION AND LICENSING

In order to become a “Professional Engineer” (P.E.) and enjoy the legal status which affords certain rights, privileges and responsibilities, engineers must qualify through the formal procedures of registration and licensing. Procedures vary from state to state, but in most cases, the applicant must pass a Fundamentals of Engineering Examination.

FUNDAMENTALS OF ENGINEERING EXAMINATION

To become legally registered as a professional engineer (P.E.), candidates must submit data regarding formal education and technical ability to the appropriate state Board of Registration for Professional Engineers. Two major examinations, The Fundamentals of Engineering Examination (also called Engineering-in-Training, E.I.T.) and the Professional Practice Examination (P.P.E.), must be successfully completed as a measure of technical ability. The Fundamentals Examination must be taken first; the Professional Practice Examination must then be taken after a designated period of substantial professional experience, usually a minimum of four years. File applications for E.I.T. by January 1. The E.I.T. Examination will be given in mid-April and late-October. File applications for Professional Practice Examinations (P.P.E.) six months in advance.

There are several possible qualification paths to registration as a P.E. The quickest and most common route is to obtain a degree from an ABET (Accreditation Board for Engineering and Technology-formerly ECPD) accredited curriculum, and to acquire the specified amount of suitable professional level experience in addition to passing the two examinations mentioned above. There are seven ABET accredited curricula at WPI—biomedical engineering, civil engineering, chemical engineering, electrical and computer engineering, manufacturing engineering, industrial engineering, and mechanical engineering. Persons with an unaccredited degree can still become registered in most, but not all, states by submitting evidence of a longer “apprenticeship” period (variable by state) before taking the two examinations. Students should strive, if at all possible, to pursue a program which is accredited by ABET and should work closely with their advisors and appropriate major departments to assure that the total program qualifies for accreditation, since this will greatly facilitate the achievement of registration in the future.

ALL SENIOR ENGINEERING MAJORS IN BME, CE, CHE, ECE, AND ME ARE URGED TO TAKE THE FUNDAMENTALS OF ENGINEERING EXAMINATION WHICH IS GIVEN ON CAMPUS EACH FALL AND SPRING. There will never be a better time!

Refresher courses for students, alumni and practicing engineers are available. Successful completion of this examination is normally the first step in eventually obtaining the right to use the initials “P.E.”

WPI’s Office of Continuing Education sponsors an eleven session EIT Refresher course from mid-January through mid-April on the WPI Campus. The course, which is taught by WPI faculty, includes reviews of the major topics covered on the exam. For further information, call 508-831-5517.

DESCRIPTION OF FUNDAMENTALS OF ENGINEERING EXAMINATION (F.E.E.)

Typical Date Given: Last Saturday in October (also in April).

Typical Application Deadline: First week in September (also in January).

Duration: Eight hours.

Type: Multiple choice, open book.