DIVISION OF ENGINEERING LEADERSHIP AND PROFESSIONAL PRACTICE

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The Division of Engineering Leadership and Professional Practice (http://engineering.case.edu/delpp) (DELPP) designs, develops and administers programs and opportunities which complement and enhance the curricular offerings in the Case School of Engineering.

The DELPP staff is committed to serving all engineering undergraduate and graduate students. We work closely with students, faculty, staff, and off-campus organizational representatives to deliver experiences designed to promote excellence in engineering education.

Mission

The mission of the Division of Engineering Leadership and Professional Practice is to support, through teaching and educational research, the Case School of Engineering’s educational programs, student programs, and outreach activities at all academic levels: PreK-12, undergraduate, graduate, and continuing education.

The activities supported by DELPP include optional academic programs that enhance the engineering curriculum, such as Cooperative Education and the Dual Degree undergraduate programs, as well as global programs, leadership exposure and opportunities, and professional practice.

Cooperative Education for Undergraduate and Graduate Engineering Students (http://engineering.case.edu/coop)

Undergraduate Cooperative Education (http://engineering.case.edu/coop) is an academic program that enables students to alternate classroom studies with career based experiences in industry. It is a learning experience designed to integrate classroom theory with practical experience and professional development. Co-op is a paid full-time work experience designed to maximize the student’s education. Co-op assignments are typically for two seven-month periods, each period consisting of a summer and a contiguous spring or fall semester. Co-op is available to students who have completed 4-5 semesters of coursework, in good academic standing, registered as a full-time student, and pursuing a degree in engineering, engineering physics, or physics. Registration in this course will serve to maintain full-time student status for the period of time that the student is on a co-op assignment.

Graduate Cooperative Education is an academic program designed for graduate students to enhance their classroom, laboratory, and research learning through participation and experience in various organizational/industrial environments where theory is applied to practice. Co-op is a paid full-time work experience for one seven-month period. Students must obtain approval from their academic advisor prior to accepting a co-op position. Graduate cooperative education experiences may be integrated with the student’s thesis or research project areas, or be solely for the purpose of gaining professional experience related to the student’s major field of study. Registration in this course will serve to maintain full-time student status for the period of time the student is on a co-op assignment. A large variety of companies hire and train the co-op students providing quality and challenging experiences. For additional information, please contact Genine Apidone (genine.apidone@case.edu) or 216.368.5024.

Dual Degree (3-2) Engineering Program

The Dual Degree (3-2) (http://engineering.case.edu/delpp/dualdegree) Engineering Program enables superior undergraduate students, enrolled at approximately forty participating liberal arts colleges in the continental United States and Puerto Rico, to combine a strong liberal arts foundation with the study of engineering. While enrolled at a cooperating liberal arts college, students complete courses in mathematics, chemistry, physics, and computer science in addition to studies in the humanities and social sciences. Students complete these courses during their first three years and must obtain the approval of the designated faculty liaison at the liberal arts college prior to admission to the Case School of Engineering.

Qualified candidates continue at the Case School of Engineering for an additional two years of concentrated coursework in an engineering field. At the conclusion of five years, two baccalaureate degrees are awarded: one from the liberal arts college and the other a Bachelor of Science degree from Case Western Reserve University. For additional information, please contact Deborah Fatica (deborah.fatica@case.edu) or 216.368.4449.

Engineering Academic Community Engagement

The DELPP develops strategic and intentional programming designed to engage students and promote a strong and supportive campus community.

Joint activities with faculty, alumni, staff and corporate sponsors include, but are not limited to: leadership opportunities in Engineering student organizations including National Engineers Week and the Dean’s Student Advisory Committee, hands-on industry sponsored design competitions, and networking and mentoring with alumni and faculty.

Global Programs

Global Programs (http://engineering.case.edu/delpp/global-exchange) offer international opportunities for engineering students ranging from study abroad to short-term programs, internships and cooperative education experiences, and research opportunities. Participation in global activities optimizes the student's educational experience as well as contributes to their societal awareness. Exposure to global activities is a valuable asset for leadership positions within multinational corporations.

The Division of Engineering Leadership and Professional Practice designs and implements programs tailored to students’ interests. Currently, short term cultural and language immersion programs are offered in the summer at various international universities, with more being established. At the University of Botswana, a three-week engineering core course is taught, which intertwines engineering content with regional issues specific to sub-Saharan Africa. Additional Engineering core courses are being taught abroad during the summer.

The Case School of Engineering hosts many students from various countries which enables students to learn about and interact with various
cultures. New programs and opportunities continue to develop for students.

On the graduate level, the Case School of Engineering is establishing partnerships with top-ranked international universities to host 3+1+1 students. This program enables students to receive a bachelor’s degree from their home university along with receiving a master’s degree from the Case School of Engineering.

Approximately 80% of the Case School of Engineering faculty collaborate with over one hundred universities and organizations in over thirty countries spanning six continents. For additional information, please contact Deborah Fatica (deborah.fatica@case.edu) or 216.368.4449.

PreK-12 Outreach

PreK-12 outreach is managed through the Leonard Gelfand STEM Center (http://gelfand.case.edu), a collaboration between the Case School of Engineering and the College of Arts and Sciences. The goals of the STEM Center are to (1) broaden participation in STEM fields by increasing the number and diversity of students in the STEM disciplines at Case Western Reserve University and elsewhere and (2) increase students’ scientific literacy through a variety of innovative STEM programs. The Gelfand STEM Center leverages the resources of Case Western Reserve University to engage pre-college students, teachers, and families in activities that introduce them to scientific practices and concepts, intended to inspire a lasting interest in science and engineering. For additional information, please contact Me’lani Labat Joseph (melani.joseph@case.edu) or 216.368.1651.