Technological Entrepreneurship

Undergraduate certificate: technological entrepreneurship

Web site: http://www.engineering.uiowa.edu/about/college-services/earn-technological-entrepreneurship-certificate

The College of Engineering partners with the Tippie College of Business to offer the Certificate in Technological Entrepreneurship. The program is administered by the John Pappajohn Entrepreneurial Center in the business college.

Undergraduate Program of Study

• Certificate in Technological Entrepreneurship

Certificate

The Certificate in Technological Entrepreneurship requires a minimum of 18 s.h. of credit. Certificate students study how the entrepreneurial process relates to technology-based businesses. The program is intended for students who plan to start and operate their own businesses as well as for those who would like to develop an understanding of how to manage innovation in business environments.

Students who complete the certificate program are able to:

• understand sound business thinking;
• use team-building skills in small and large companies;
• understand the entrepreneurial approach to acquiring and managing resources;
• create a business plan;
• bridge engineering and business principles; and
• network with businesses and industries.

The certificate program is open to Bachelor of Science in Engineering students who have earned at least 45 s.h. of credit toward the B.S.E. and have a University of Iowa g.p.a. of at least 2.75. Students must declare their intention to pursue the certificate on ISIS and must apply for admission using the application form available online.

Students must complete at least 12 s.h. of the 18 s.h. required for the certificate at the University of Iowa or in approved study abroad courses. They must maintain a g.p.a. of at least 2.00 in work toward the certificate. Students must be granted the B.S.E. and complete all certificate requirements in order to receive the certificate.

The Certificate in Technological Entrepreneurship requires the following course work.

FOUNDATION COURSE

One of these:

ENTR:1350 Foundations in Entrepreneurship 2 s.h.
IE:2500 Engineering Economy 3 s.h.

ENTREPRENEURSHIP CORE

Both of these:

ENTR:2000 Entrepreneurship and Innovation 3 s.h.
ENTR:3100 Entrepreneurial Finance 3 s.h.

ENTREPRENEURSHIP COURSE IN THE MAJOR

One of these, depending on a student's engineering major:

BME:4910 Biomedical Engineering Senior Design I (biomedical engineering majors) 4 s.h.
CBE:4109 Chemical Engineering Process Design I (chemical engineering majors) 2 s.h.
CEE:3084 Project Design and Management in Civil Engineering (civil engineering majors) 3 s.h.
ECE:4890 Senior Electrical Engineering Design (electrical engineering majors) 3 s.h.
IE:4600 Industrial Engineering Design Project (industrial engineering majors) 4 s.h.
ME:4086 Mechanical Engineering Design Project (mechanical engineering majors) 3 s.h.

ENTREPRENEURSHIP ELECTIVES

Students customize their programs with their choice of electives. They earn sufficient elective credit to reach the total of 18 s.h. required for the certificate.

BME:4920 Biomedical Engineering Senior Design II 4 s.h.
ENTR:3200 Entrepreneurial Marketing 3 s.h.
ENTR:3300 Legal Aspects of Entrepreneurship 3 s.h.
ENTR:3400 Strategic Management of Technology and Innovation 3 s.h.
ENTR:3500 Social Entrepreneurship 3 s.h.
ENTR:3595 Nonprofit Organizational Effectiveness I 3 s.h.
ENTR:3600 E-Commerce Strategies for Entrepreneurs 3 s.h.
ENTR:4000 Seminar in Entrepreneurship 3 s.h.
ENTR:4200 Entrepreneurship: Business Consulting 3 s.h.
ENTR:4300 Entrepreneurship: Advanced Business Planning 3 s.h.
ENTR:4400 Managing the Growth Business 3 s.h.
ENTR:4450 Professional Sports Management 3 s.h.
ENTR:4460 Entrepreneurship and Global Trade 3 s.h.
ENTR:4510 Arts Leadership Seminar 3 s.h.
ENTR:4600 Advanced Venture Finance 3 s.h.
ENTR:4900 Academic Internship 1-9 s.h.
ENTR:9000 Developing Professional Service Business 3 s.h.

Any entrepreneurship course (prefix ENTR), with certificate advisor's approval