Office of the Provost

Office of the Provost

Provost - Teaching and Learning

Certificate

Entrepreneurship and Innovation Certificate

Earn a credential in entrepreneurship, similar to a minor.

Complete five courses, some of which may overlap with requirements in your major.

PURPOSE

The Certificate in Entrepreneurship and Innovation Program empowers students to turn their innovative ideas into action. In this flexible program designed to complement any major, students will:

- Learn how to evaluate and launch new venture opportunities
- Develop viable business models through market research and financial analyses
- Acquire the business literacy and professional skills demanded by today's employers

ELIGIBILITY

Similar to a minor, the program is open to all undergraduates enrolled at Purdue's West Lafayette campus who have at least four semesters remaining in their academic program.

BENEFITS

Upon completion, students receive an official certificate, which is noted on their academic transcript. The program offers students a unique, multidisciplinary experience and benefits including:

- Professional skills for work and life
- Enhanced job prospects and choices
- Connections to successful entrepreneurs and innovators
- Workshops, speakers, and experiential opportunities
- Leadership and communication skills

ABOUT US

Purdue's Certificate in Entrepreneurship and Innovation is one of the largest, multidisciplinary entrepreneurship programs in the country, serving approximately 1,800 students from across campus each year. Annually, hundreds of Purdue graduates receive their certificates in addition to their diplomas at graduation. The program is administered through Purdue's Office of the Provost and is governed by a Faculty Advisory Committee consisting of highly respected faculty and administrators from every college on campus.

Entrepreneurship & Innovation Website

Requirements for the Certificate (15 credits)

- No application is required. Students simply enroll in the first introductory course, ENTR 20000- Introduction to Entrepreneurship and Innovation, and work with their academic advisor to create an ideal plan of study.
- In some case, students are permitted to substitute an additional capstone for one of the required option
 courses. A grade of C- or higher is required for ENTR designated courses. ENTR designated courses may be
 contracted to fulfill Honors courses requirements.

Students must complete five courses in the categories below, some of which may overlap with requirements in their major.

Two Introductory Core Courses (6 credits)

Core courses provide students with the fundamental language, knowledge, leadership, and communication skills related to entrepreneurship and innovation. These required core courses are offered solely by the Certificate in Entrepreneurship and Innovation Program.

- ENTR 20000 Introduction To Entrepreneurship And Innovation
- ENTR 31000 Marketing And Management For New Ventures or
- ENTR 31500 Business Planning For Social Entrepreneurship

Two Option Courses (6 credits)

- Option courses provide students with discipline or industry specific depth in areas that are relevant to entrepreneurship and innovation.
- They are offered through the Certificate in Entrepreneurship an Innovation Program as well as departments
 across the university.

Entrepreneurship and Innovation Certificate Option Course List

One Capstone Course (3 credits)

- Capstone courses provide students with project-related experiences, which can include developing business plans for new ventures, consulting with small businesses or involvement in product innovation.
- They are offered through the Certificate in Entrepreneurship an Innovation Program as well as departments
 across the university.

Entrepreneurship and Innovation Certificate Capstone Course List

Notes

FOR MORE INFORMATION, PLEASE CONTACT:

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Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Program Information

Entrepreneurship and Innovation Certificate Capstone Course List

Capstone courses provide students with projected-related experiences, which can include developing business plans for new ventures, consulting with small businesses or involvement in product innovation. They are offered through the Certificate in Entrepreneurship and Innovation Program as well as departments across the university.

- Courses designated "OPEN" on the list below are available to all students, where space permits and prerequisites have been met.
- Course designated "RESTRICTED" on the list below may be limited by college, major, or other criteria and some may require departmental consent.

REQUIREMENTS

Students must complete ONE capstone course from the list of offerings below, some of which may overlap with requirements in their major.

Students are permitted to substitute an additional capstone for one of the required option courses. A grade of C- or higher is required for ENTR designated courses.

Certificate in Entrepreneurship and Innovation

OPEN

- ENTR 48000 Entrepreneurship Capstone
- ENTR 48100 Consulting For Emerging Enterprises
- ENTR 48200 Venture Planning Capstone
- ENTR 39699 Interns For Indiana Experience

Agriculture

OPEN

- AGEC 42900 Agribusiness Marketing Workshop
- AGEC 43000 Agricultural And Food Business Strategy or
- AGEC 53000 Strategic Agribusiness Management

- ASEC 43110 International Engagement Methods
 - RESTRICTED
- ANSC 49400 Animals And Food Security: International Services Learning
- ASM 49400 Project Planning And Management or
- ABE 48400 Project Planning And Management
- FS 44300 Food Product Design (Capstone)
- HORT 42700 Horticulture Capstone

Education

Please refer to the Certificate in Entrepreneurship and Innovation Program, Agriculture, Engineering and Management capstone courses listed as "OPEN".

Engineering

OPEN

- ENGR 49001 Breakthrough Thinking For Complex Challenges
 All Senior Design EPCS capstone participation must total 3 credits over 2 semesters
- EPCS 40100 Senior Participation In EPICS
- EPCS 40200 Senior Participation In EPICS
- EPCS 41100 Senior Design Participation In EPICS
- EPCS 41200 Senior Design Participation In EPICS
- EPCS 49000 EPICS Special Topics Course

RESTRICTED

- AAE 45000 Spacecraft Design
- AAE 45100 Aircraft Design
- AAE 53500 Propulsion Design, Build, Test
- ABE 48400 Project Planning And Management and
- ABE 48600 Agricultural Engineering Design OR
- ASM 49400 Project Planning And Management and
- ASM 49500 Agricultural Systems Management Capstone Project
- ABE 55800 Process Design For Food And Biological Systems
- BME 48800 Preliminary Senior Project Design and
- BME 48900 Senior Design Project Lab and
- BME 49000 Professional Elements Of Design
- CHE 45000 Design And Analysis Of Processing Systems
- ECE 47700 Digital Systems Senior Project
- ECE 49022 Electrical Engineering Senior Design Projects
- EEE 48000 Environmental And Ecological Engineering Senior Design
- IDE 48500 Multidisciplinary Engineering Design Project
- ME 46300 Engineering Design

Health and Human Sciences

Please refer to the Certificate in Entrepreneurship and Innovation Program, Agriculture, Engineering and Management capstone courses listed as "OPEN".

Liberal Arts

RESTRICTED

FVS 49900 - Capstone In Film/Video/Media Production

Management

OPEN

• MGMT 48400 - Management Of Entrepreneurial Ventures

Pharmacy

RESTRICTED

PHRM 86900 - Practice Management And Marketing Of Professional Services

Polytechnic Institute

RESTRICTED

- BCM 48701 Construction Capstone
- ECET 43000 Electrical And Electronic Product And Program Management and
- ECET 46000 Project Design And Development OR
- ECET 43100 International Capstone Project Planning And Design and
- ECET 46100 International Capstone Project Execution
- MET 40100 Capstone Projects I and
- MET 40200 Capstone Projects II
- MFET 48000 Project Planning For Integration and
- MFET 48100 Integration Of Manufacturing Systems
- TLI 48390 Industrial Engineering Technology Capstone I: Problem Identification And Analysis and
- TLI 48395 Industrial Engineering Technology Capstone II: Project Design
- TLI 48490 Supply Chain Management Technology Capstone I: Strategic Planning and
- TLI 48495 Supply Change Management Technology Capstone II: Strategic Analytics

Science

Please refer to the Certificate in Entrepreneurship and Innovation Program, Agriculture, Engineering and Management capstone courses listed as "OPEN".

Study Abroad

- Some entrepreneurial courses offered abroad are approved to fulfill Certificate in Entrepreneurship and Innovation Program requirements.
- For a list of those opportunities, click here.

If interested in these opportunities, please connect with the Certificate in Entrepreneurship and Innovation's
academic advisor, Rita Baker at bakerr@purdue.edu, to obtain the necessary approval for it to be applied
toward your certificate requirements.

Entrepreneurship and Innovation Certificate Option CourseList

Option courses provide students with discipline or industry specific depth in areas that are relevant to entrepreneurship and innovation. They are offered through the Certificate in Entrepreneurship and Innovation Program as well as departments across the university.

- Courses designated "OPEN" on the list below are available to all students, where space permits and prerequisites have been met.
- Course designated "RESTRICTED" on the list below may be limited by college, major, or other criteria and some may require departmental consent.

REQUIREMENTS

Students must complete TWO option courses from the list of offerings below, some of which may overlap with requirements in their major.

Students are permitted to substitute an additional capstone course for one of the required option courses. A grade of C-or higher is required for ENTR designated courses.

Certificate in Entrepreneurship and Innovation

OPEN

- ENTR 46000 Internship And Career Preparation Seminar (online)
- ENTR 47000 Women And Leadership (spring only)

College of Agriculture

OPEN

- AGEC 33000 Management Methods For Agricultural Business
- AGEC 33100 Principles Of Selling In Agricultural Business
- AGEC 32700 Principles Of Food And Agribusiness Marketing and
- AGEC 42700 Advanced Agribusiness Marketing
- AGEC 42400 Financial Management Of Agricultural Business
- HORT 43500 Developing An Agricultural Startup RESTRICTED
- ANSC 44000 Horse Management

College of Education

OPEN

EDPS 30000 - Student Leadership Development

College of Engineering

OPEN

- AAE 25100 Introduction To Aerospace Design
- CE 35500 Engineering Environmental Sustainability
- CE 49700 Civil Engineering Projects Ldrshp & Adv Proj Mgmt or
- CEM 49700 Construction Engineering Projects Ldrshp & Adv Proj Mgmt
- CE 52100 Construction Business Management
- CE 52400 Legal Aspects In Engineering Practice
- CE 59700 Civil Engineering Projects Adv Proj Mgmt & Analysis; Entrprnshp Bus Strtgy In Eng -Entrprnshp Bus Strtgy In Eng
- EEE 35500 Engineering Environmental Sustainability
- ENGR 49600 Experimental Courses (High Tech Entrepreneurship)
- ENGR 30500 Fundamentals Of Innovation Theory And Practice <u>All EPCS option participation must total 3 credits over 2 semesters</u>
- EPCS 10100 First Year Participation In EPICS
- EPCS 10200 First Year Participation In EPICS
- EPCS 11100 First Year Participation In EPICS I
- EPCS 12100 First Year Participation In EPICS II
- EPCS 20100 Sophomore Participation In EPICS
- EPCS 20200 Sophomore Participation In EPICS
- EPCS 30100 Junior Participation In EPICS
- EPCS 30200 Junior Participation In EPICS
- IE 34300 Engineering Economics
- IE 54500 Engineering Economic Analysis
- IE 54600 Economic Decisions In Engineering
- IE 56600 Production Management Control
- ME 55400 Intellectual Property For Engineers

RESTRICTED

- AAE 35103 Aerospace Systems Design
- AAE 45400 Design Of Aerospace Structures
- AAE 53500 Propulsion Design, Build, Test
- ABE 55700 Transport Operations In Food And Biological Systems II
- BME 39000 Professional Development And Design In Biomedical Engineering
- ECE 27900 Sophomore Participation In Vertically Integrated Projects In Electrical And Computer Engineering
- ECE 37900 Junior Participation In Vertically Integrated Projects (VIP) In Electrical And Computer Engineering
- ECE 47900 Senior Participation In Vertically Integrated Projects (VIP) In Electrical And Computer Engineering
- IE 59000 Topics In Industrial Engineering Structured Engr Innovation
- ME 26300 Introduction To Mechanical Engineering Design, Innovation And Entrepreneurship
- ME 44400 Computer-Aided Design And Prototyping
- ME 49700 Mechanical Engineering Projects Product Dvlpmnt-Design Process
- ME 55300 Product And Process Design
- NUCL 47000 Fuel Cell Engineering

College of Health and Human Sciences

OPEN

- CSR 34400 Fundamentals Of Negotiations
- HDFS 34800 Administration Of Social Service Not-For-Profit Organizations RESTRICTED
- CSR 30900 Leadership Strategies
- CSR 40600 E-Retailing
- HK 38500 Methods Of Health Promotion And Education
- HK 42400 Health And Fitness Program Management
- HTM 31200 Human Resources Management For The Service Industries
- HTM 44100 Financial Management For The Hospitality Industry
- HTM 49900 Feasibility Studies And Business Development In Hospitality And Tourism
- NUR 41701 Leadership In Nursing

College of Liberal Arts

OPEN

- COM 21700 Science Writing And Presentation
- COM 31400 Advanced Presentational Speaking
- COM 43500 Communication And Emerging Technologies
- COM 44400 Introduction To Communication And Social Entrepreneurship
- CHNS 22400 Chinese Level IV Business Chinese
- ENGL 42000 Business Writing "E0" sections only (designated for Entrepreneurship Certificate)
- FR 32400 Business French II
- FR 42400 Business French III
- GER 42400 Business German
- GER 52400 German For International Trade
- SPAN 42400 Business Spanish

RESTRICTED

- FVS 26100 Foundations Of Cinema
- FVS 44200 Digital Film Production

Libraries

OPEN

ILS 59500 - Special Topics In Information And Data Science - Info Strat For Entr Innov

School of Management

OPEN

- MGMT 30400 Introduction To Financial Management (non-mgmt students only)
- MGMT 59000 Directed Readings In Management Student Managed Venture Fund RESTRICTED
- MGMT 11000 Introduction To Management And Information Strategies
- MGMT 44810 Technology Strategy
- MGMT 42300 New Product Development
- MGMT 42910 Experiential Marketing
- MGMT 45200 Manufacturing Strategy And Process Innovation

MGMT 48800 - Data-Driven Decisions In Digital Markets

College of Pharmacy

RESTRICTED

- PHRM 83100 Health Care Systems
- PHRM 84900 Population Health Management
- PHRM 87000 Health Policy Applications

Polytechnic Institute

OPEN

- IT 22600 Biotechnology Laboratory I
- IT 33000 Industrial Sales And Sales Management
- IT 43400 Global Transportation And Logistics Management
- TLI 21400 Introduction To Supply Chain Management Technology
- TLI 33400 Economic Analysis For Technology Systems RESTRICTED
- AT 41200 Aviation Finance
- AT 49800 Aviation Technology Capstone
- BCM 45500 Construction Company Management
- CGT 25001 Computer Graphics Professional Practices I and
- CGT 41101 Contemporary Problems In Applied Computer Graphics I and
- CGT 41201 Contemporary Problems In Applied Computer Graphics II and
- CGT 45001 Computer Graphics Professional Practices II
- CGT 41100 Contemporary Problems In Applied Computer Graphics and
- CGT 45000 Professional Practices
- CNIT 48000 Managing Information Technology Projects
- TLI 31400 Leading Innovation In Organizations
- TLI 31500 New Product Development

College of Science

OPEN

- COM 21700 Science Writing And Presentation
- All College of Science Core: Great Issues in Science courses

RESTRICTED

- CS 40700 Software Engineering Senior Project
- SCI 49000 Topics In Science For Undergraduates Dean's Executive Forum (this title only)

Study Abroad

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Purdue Systems Collaboratory

See Systems Certificate for more information about the certificate.

Purdue Systems Collaboratory website

Certificate

Systems Certificate

About the Program

The purpose of the Certificate in Systems is to educate undergraduate students with a set of cognitive competencies, tools and methods that can be applied to a broad range of complex and challenging issues. The graduates of the program will be well prepared to create and execute transdisciplinary processes that result in systems responsive to stakeholders' needs. The program has three dimensions:

- · Convergence of Knowledge: Students learn about foundational principles that span the different system domains, identifying common principles for systems, akin to the natural laws governing physical sciences. This is an essential step in furthering the ability to model, design, and manage complex systems.
- · Human Dimension: Students practice advanced human-centric methods to build systems for large-scale societal applications, and methods to support decision-making for designing and operating complex systems.
- · Systems Perspective: The certificate focus is on educating "systems thinkers". Students will be trained in liberal arts, mathematical concepts, the latest in computational architectures and tools, understanding human decision-making, policy, and exposed to the complexities of functioning in a globally distributed real- world enterprise.

Purdue Systems Collaboratory Website

Requirements for the Certificate (15 credits)

Required Courses (9 credits)

- SYS 30000 It's A Complex World Addressing Global Challenges or
- SYS 50000 Perspectives On Systems
- SYS 35000 Systems Theories And Approaches or
- SYS 51000 Tools And Methodologies For Designing Systems
- SYS 40000 Science And Technology Policy or

SYS 53000 - Practical Systems Thinking

Supplemental Courses -Choose Two (6 credits)

See Systems Certificate Supplemental Courses List for courses.

Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Program Information

Systems Certificate Supplemental Information

College of Agriculture

- ABE 48500 Agricultural Engineering Project Management And Design
- AGEC 20400 Introduction To Resource Economics And Environmental Policy
- AGEC 25000 Economic Geography Of World Food And Resources
- AGEC 34000 International Economic Development
- AGEC 35200 Quantitative Techniques For Firm Decision Making
- AGEC 40600 Natural Resource And Environmental Economics
- AGEC 41000 Agricultural Policy
- AGEC 52500 Environmental Policy Analysis
- AGEC 52800 Global Change And The Challenge Of Sustainably Feeding A Growing Planet
- AGEC 59600 Seminars In Current Issues In Agricultural Economics
- AGR 20100 Communicating Across Culture
- AGRY 28500 World Crop Adaptation And Distribution
- FNR 22310 Introduction To Environmental Policy
- FNR 23000 The World's Forests And Society
- FNR 30200 Global Sustainability Issues
- FNR 40600 Natural Resource And Environmental Economics
- FNR 41200 Natural Resources Decision Making
- NRES 30500 Environmental Decision Making
- SFS 31500 Principles Of Permaculture
- SFS 31600 Decisions Through Systems Analysis

College of Education

- EDPS 31500 Collaborative Leadership: Interpersonal Skills
- EDPS 31600 Collaborative Leadership: Cross-Cultural Settings
- EDST 51200 Foundations Of Educational Policy

College of Engineering

- AAE 56000 System-Of-Systems Modeling And Analysis
- CE 35500 Engineering Environmental Sustainability
- CE 39800 Introduction To Civil Engineering Systems Design
- CE 49700 Civil Engineering Projects
- CHE 46300 Applications Of Chemical Engineering Principles
- EEE 25000 Environmental, Ecological, and Engineering Systems
- EEE 30000 Environmental And Ecological Systems Modeling
- EEE 35500 Engineering Environmental Sustainability
- ENGR 30500 Fundamentals Of Innovation Theory And Practice
- ENGR 31000 Engineering In Global Context
- ENGR 39501 Breakthrough Thinking Complex Challenges
- IDE 30100 Professional Preparation In Interdisciplinary Engineering
- IE 33500 Operations Research Optimization
- IE 33600 Operations Research Stochastic Models
- IE 38300 Integrated Production Systems I
- IE 38600 Work Analysis And Design I
- IE 48100 Introduction To System Simulation
- IE 52500 Healthcare Delivery Systems
- IE 55800 Safety Engineering
- IE 57700 Human Factors In Engineering
- IE 57900 Design And Control Of Production And Manufacturing Systems
- IE 58000 Systems Simulation
- IE 59000 Topics In Industrial Engineering
- ME 41500 Energy Systems Engineering
- HIST 30000 Eve Of Destruction: Global Crises And World Organization In The 20th Century
- HK 51000 Introduction To The Quantitative Methods Of Public Health

College of Science

- BIOL 31200 Great Issues Genomics And Society
- BIOL 44215 Multidisciplinary Design Of Systems And Devices For Physiology Measurements
- BIOL 48300 Great Issues: Environmental And Conservation Biology
- EAPS 30100 Oil!
- EAPS 32700 Climate, Science And Society
- EAPS 36000 Great Issues In Science And Society
- EAPS 36400 Natural Hazards: Science And Society
- EAPS 37500 Great Issues Fossil Fuels, Energy And Society
- STAT 11300 Statistics And Society

College of Health and Human Sciences

- CSR 34400 Fundamentals Of Negotiations
- HK 51000 Introduction To The Quantitative Methods Of Public Health
- NUR 22201 Population Health

- PSY 24000 Introduction To Social Psychology
- PSY 57700 Human Factors In Engineering

Krannert School of Management

- ECON 36100 Antitrust And Regulation
- ECON 36700 Law And Economics
- ECON 45100 Game Theory
- ECON 47100 Behavioral Economics
- ECON 48500 Economics Of Racial And Gender Discrimination

College of Liberal Arts

- ANTH 21000 Technology And Culture
- ANTH 32700 Environment And Culture
- ANTH 34000 Global Perspectives On Health
- ANTH 37000 Ethnicity And Culture
- COM 20400 Critical Perspectives On Communication
- COM 22400 Communicating In The Global Workplace
- COM 30300 Intercultural Communication
- COM 32400 Introduction To Organizational Communication
- COM 35300 Problems In Public Relations
- COM 41100 Communication And Social Networks
- COM 44400 Introduction To Communication And Social Entrepreneurship
- GSLA 10100 Global Awareness
- HIST 10500 Survey Of Global History
- HIST 30000 Eve Of Destruction: Global Crises And World Organization In The 20th Century
- PHIL 11400 Global Moral Issues
- POL 12000 Introduction To Public Policy And Public Administration
- POL 14100 Governments Of The World
- POL 22300 Introduction To Environmental Policy
- POL 32300 Comparative Environmental Policy
- POL 32700 Global Green Politics
- POL 34700 Introduction To Latin American Politics
- POL 41300 The Human Basis Of Politics
- POL 42900 Contemporary Political Problems
- SOC 22000 Social Problems
- SOC 31600 Industry And Society
- SOC 35200 Drugs, Culture, And Society

College of Technology (Purdue Polytechic Institute)

- AT 42101 Managerial Economics In Aviation
- AT 45400 Human Factors In Aviation
- AT 52500 Process Improvement And Simulation
- AT 55000 Critical Systems Thinking

- BCM 34000 Introduction To Healthcare Construction Management
- CGT 17208 User Experience Design Studio I: Fundamentals
- CNIT 32000 Policy, Regulation, And Globalization In Information Technology
- IT 44600 Six Sigma Quality
- MA 27900 Modern Mathematics In Science And Society
- OLS 34500 Critical Thinking In Organizations
- OLS 34600 Critical Thinking And Ethics
- TECH 12000 Design Thinking In Technology
- TLI 45570 Global Human Resources

Office of Professional Practice

Professional Practice Programs

The Office of Professional Practice (OPP) facilitates the experiential education and professional practice of Purdue University students within the academic environment of the institution and its global partners, participates in academic research within the field of professional practice, and assists academic units with enhanced employer engagement. Committed to fostering a holistic student experience, the OPP offers formal programs in 5-Session Co-Op, 3-Session Co-Op, internship, and research formats. OPP also facilitates the Global Engineering Alliance for Research and Education (GEARE), Purdue's premier international work experience program. Purdue designs Professional Practice programs to combine practical on-the-job experiences with the classroom training of a four-year college curriculum.

Message from the Director

Office of Professional Practice Website

Program Information

- Program Availability by Discipline
- FLEX Co-op
- 5-Session Co-Op Program
- 3-Session Co-Op Program
- Master's Co-Op Program
- Internships
- Intensive Interships
- GEARE Program
- International Opportunities
- Study Abroad Programs
- Interns for Indiana

Contact Us

Have questions? Want to talk more about the opportunities our office provides? Give us a call, send us an email, or stop by our office! Our staff is here Monday through Friday from 8 a.m. to 4:30 p.m.

Office of Professional Practice

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