

APPROVED COURSES FOR CERTIFICATE IN ENTREPRENEURSHIP AND INNOVATION - Page 1 of 3

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|---|--|---------------|--------------|---|-----------------|
| PROGRAM REQUIREMENTS: Students must take the equivalent of five courses in the following categories: | | | | | |
| Two Required Core Courses (6 credits) | | | | | |
| ENTR 20000 Introduction to Entrepreneurship and Innovation | | | | | |
| ENTR 31000 Marketing and Management for New Ventures (pre-req. ENTR 20000) or ENTR 31500 Business Planning for Social Entrepreneurship (pre-req. ENTR 20000) | | | | | |
| Two Option Courses | | | | | |
| Option courses provide students with discipline or industry/market-specific depth in areas that are relevant to entrepreneurship and/or innovation. | | | | | |
| One Capstone Course | | | | | |
| Capstone courses provide students with hands-on, real-world entrepreneurial or innovation-related experiences that provide closure and coherence to the Certificate Program | | | | | |
| <i>Students will be permitted to substitute an additional capstone for one of the required option courses.</i> | | | | | |
| <i>Courses designated "OPEN" on the approved list are available to all certificate program students, where space permits and pre-requisites have been met.</i> | | | | | |
| The Process | | | | | |
| To enter the Program students should enroll in ENTR 20000. Those interested in receiving the Certificate will fill out a Completion Plan when enrolled in ENTR 31000. | | | | | |
| <i>Grade of C- or higher must be obtained in all ENTR courses used toward Certificate Completion.</i> | | | | | |
| REQUIRED ENTREPRENEURSHIP CORE COURSES | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| ENTR 20000 | Introduction to Entrepreneurship and Innovation | Core | OPEN | | F/Sp, or SS |
| ENTR 31000 | Marketing and Management for New Ventures | Core | OPEN | ENTR 20000; Fulfills second core requirement as does ENTR 31500 | F/Sp, or SS |
| ENTR 31500 | Business Planning for Social Entrepreneurship | Core | OPEN | ENTR 20000; Fulfills second core requirement as does ENTR 31000 | Both |
| ENTREPRENEURSHIP OPTION COURSES | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| ENTR 46000 | Internship and Career Preparation Seminar | Option | OPEN | Online course. For more information, contact Rita Baker at bakerr@purdue.edu | F/Sp or SS |
| ENTR 47000A | Women and Leadership | Option | OPEN | | Spring |
| ENTREPRENEURSHIP CAPSTONE COURSES & EXPERIENTIAL PROGRAMS | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| ENTR 48000 | Entrepreneurship Capstone | Capstone | OPEN | ENTR 20000, 31000/31500 and at least 1 option course or equivalent | Both |
| ENTR 48100 | Entrepreneurship Capstone - Consulting for Emerging Enterprises | Capstone | OPEN | ENTR 20000, 31000/31500 & at least 1 option or equiv, instructor permission | Both |
| ENTR 48200 | Venture Planning Capstone | Capstone | OPEN | ENTR 20000, 31000/31500 and at least 1 option course or equivalent | Both |
| ENTR 39699 | Interns for Indiana Experience | Capstone | OPEN | Formerly ENTR 46100. For more information, contact Aimee Griggs at aimgriggs@purdue.edu | F/Sp or SS |
| ADDITIONAL APPROVED EXPERIENTIAL PROGRAMS (STUDY ABROAD & INTERNSHIPS) | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| | Tec de Monterrey, campus Queretaro, Mexico | Option | SA approval | Select course reqs. Contact Glenda at gcaudill@purdue.edu | F/Sp or SS |
| | DIS Copenhagen, Copenhagen, Denmark | Capstone | SA approval | Select course reqs. Contact Glenda at gcaudill@purdue.edu | F/Sp or SS |
| | GEM Trailblazer Summer NTU Singapore, Tracks 2 and 4 | Both possible | SA approval | Select course reqs. Contact April Robillos at robillos@purdue.edu | SS |
| | Universita Bocconi, IES-Milan | Option | SA approval | Select course reqs. Contact Glenda at gcaudill@purdue.edu | Both |
| | University College Dublin's Quinn, Sch. of Business, Dublin, Ireland | Option | SA approval | Select course reqs. Contact Glenda at gcaudill@purdue.edu | F/Sp or SS |
| | Cancer Prevention Internship Program | Option | OPEN | For more information, contact Dr. Dorothy Teegarden at teegarden@purdue.edu | F/Sp or SS |
| AGRICULTURE | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| AGEC 33000 | Management Methods for Agricultural Business | Option | OPEN | | Both |
| AGEC 33100 | Principals of Selling in Agricultural Business | Option | OPEN | Second semester Freshman or higher | F/Sp or SS |
| AGEC 32700 and 42700 | Principals of Food and Agribusiness Marketing & Advanced Agribusiness Marketing | Option | OPEN | MGMT 32300 or MGMT 32400 | Both, Fall |
| AGEC 42400 | Financial Management of Agricultural Business | Option | OPEN | AGEC 31100/33000 or MGMT 20000/20010 or BUS A20100 | Both |
| AGEC 42900 | Agribusiness Marketing Strategies | Capstone | OPEN | AGEC 32700/MGMT 32300 and AGEC 42700 | Spring |
| AGEC 43000 or 53000 | Agricultural and Food Business Strategy | Capstone | OPEN | AGEC 32700/MGMT 32300 and AGEC 42400 | Both |
| ANSC 44000 | Horse Management | Option | AG | ANSC 22100 | Fall |
| ANSC 49400 | Animals and Food Security Service Learning | Capstone | ANSC | See Department | SS |
| ASEC 43110 | International Engagement Methods | Capstone | OPEN | See Department | Both |
| ASM 49400 or ABE 48400 | Project Planning & Management | Capstone | ASM/ABE | ASM 22100 and Senior status or Instructor Permission | Fall |
| FS 44300 | Food Processing III | Capstone | FS | FS 42000 | Spring |
| HORT 42700 | Horticulture Capstone | Capstone | LAHD/HOSC | HORT 31600; graduate candidate status | Both |
| HORT 43500 | Developing An Agricultural Startup | Option | OPEN | AGEC 33000 or ENTR 20000 & AGEC 20300 or AGEC 21700 | Fall |
| EDUCATION | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| EDPS 30000 | Student Leadership Development | Option | OPEN | Instructor permission | Both |
| ENGINEERING | | | | | |
| | | Type | Major | Pre-reqs & Notes | Semester |
| AAE 25100 | Introduction To Aerospace Design | Option | OPEN | ENGR 12600 or ENGR 12100 | F/Sp or SS |
| AAE 35103 | Aerospace Systems Design | Option | AAE | AAE 25100 | Fall |
| AAE 45000 | Spacecraft Design | Capstone | AAE | Senior standing | Both |
| AAE 45100 | Aircraft Design | Capstone | AAE | Senior standing | Both |
| AAE 45400 | Design Of Aerospace Structures | Option | AAE | AAE 35200 | Fall |
| AAE 53500 | Propulsion Design, Build, Test | Capstone | AAE | AAE 35200 or permission | Spring |
| ABE 48400 and 48600 OR ASM 49400 and 49500 | Project Planning and Mgmt & Agricultural Engr Design or Project Planning and Mgmt & Agricultural Systems Mgmt Capstone Project | Capstone | ABE/ASM | ASM 22100 and Senior status or Instructor Permission | F,S |

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| ABE 55700 | Tranp Op Food and Bio Sys II | Option | ABE/CHE | ABE 457, Formerly ABE 555 | Fall |
| ABE 55800 | Biological & Food Process Design | Capstone | ABE/CHE | ABE 55700 | Spring |
| BME 39000 | Professional Development & Design in Biomedical Engineering | Option | BME | BME 29000 | Spring |
| BME 48800 and 48900 and 49000 | Preliminary Senior Project Design & Senior Design Project Lab & Professional Elements of Design | Capstone | BME | Consists of 3 courses, 488 (1), 489(2), 490 (1) | F, Both , F |
| CE 35500 or EEE 35500 | Engineering Environmental Sustainability | Option | OPEN | Sophomore standing or higher | Both |
| CE 49700 or 59700 or CEM 49700 Specific Title Only | Ldrshp & Adv Proj Mgmt, Adv Proj Mgmt, Ldrshp & Adv Proj Mgmt | Option | OPEN | | Variable |
| CE 52100 | Construction Business Management | Option | OPEN | Junior standing or higher, MGMT 20000, STAT 51100 or 35000, GR-CE 52100 | Spring |
| CE 52400 | Legal Aspects of Engineering Practice | Option | OPEN | Senior standing | Variable |
| CE 59700 Specific Title Only | Entrepreneurship and Business Strategy for Engineering - Entrprnshp Bus Strlgy In Eng | Option | OPEN | | Variable |
| CHE 45000 | Design of Chemical Process Systems | Capstone | CHE | Pre: CHE 30600, 34800, 37800, Co-req: CHE 43500 | Both |
| ECE 27900 | Sophomore Participation in Vertically Integrated Projects in ECE | Option | ECE | Department permission | Both |
| ECE 37900 | Junior Participation in Vertically Integrated Projects in ECE | Option | ECE | Department permission | Both |
| ECE 47900 | Senior Participation in Vertically Integrated Projects in ECE | Option | ECE | Department permission | Both |
| ECE 47700 | Digital Systems Senior Project | Capstone | ECE | Instructor permission | Both |
| ECE 49022 | Senior Design Special Projects | Capstone | ECE | Senior standing or consent. Formerly ECE 40200 | Both |
| ENGR 30500 | Fundamentals of Innovation Theory and Practice | Option | OPEN | | Fall |
| ENGR 49001 | Breakthrough Thinking for Complex Challenges | Capstone | OPEN | | Variable |
| ENGR 49600 Specific Title Only | High Tech Entrepreneurship | Option | OPEN | | Variable |
| EEE 35500 or CE 35500 | Engineering Environmental Sustainability | Option | OPEN | Sophomore standing or higher | Both |
| EEE 48000 | Environmental And Ecological Engineering Senior Design | Capstone | EEE | Senior standing | Both |
| EPSC 100000:399999 | EPICS Participation | Option | OPEN | Total of 3 credits over 2 semesters. | Both |
| EPSC 400000:499999 | Senior Participation in EPICS | Capstone | OPEN | Total of 3 credit hours of 40000 level over 2 semesters | Both |
| IE 34300 | Engineering Economics | Option | OPEN | Pre: ENGR 12600, Co-req. CGT 16300 | Both |
| IE 54500 | Engineering Economics Analysis | Option | OPEN | IE 33500, Junior/Senior status | Both |
| IE 54600 | Economic Decisions in Engineering | Option | OPEN | A course in probability, Junior/Senior status | Spring |
| IE 56600 | Production Management Control | Option | OPEN | Junior standing or higher, Co-req IE 38300 | Both |
| IDE 48500 | Multi-disciplinary Design | Capstone | MDE | Pre: IE 343 or equiv, ENE approved design course, MA 262 or MA 265 & 266, dept permission. Pre-or Co-req IDE 301 | Spring |
| ME 26300 | Introduction to Mechanical Engineering Design | Option | ME | Pre:CGT 16300, ME 20000, 27000, Co-req: ME 29000, MA 2620 | Both |
| ME 44400 | Computer-aided Design and Prototyping | Option | ME | Senior standing | Both |
| ME 46300 | Engineering Design | Capstone | ME/SCI | ME 31500, 35200, 37500, MSE 23000 | F/Sp or SS |
| ME 49700 Specific Section and Title Only | Product Dvlpmnt-Design Process | Option | ME | Contact ME Advising | SS/ Variable |
| ME 55300 | Product and Process Design | Option | ME | Senior standing | Spring |
| ME 55400 | Intellectual Property for Engineers | Option | OPEN | Junior standing & Phys 17200 | Fall |
| NUCL 47000 | Fuel Cell Engineering | Option | Sci/E/Tech | Junior standing or higher | Fall |
| HEALTH AND HUMAN SCIENCES | | Type | Major | Pre-reqs & Notes | Semester |
| CSR 30900 | Leadership | Option | CSR | Junior standing or higher | Fall |
| CSR 34400 | Fundamentals of Negotiation | Option | OPEN | AGEC 33100 and (CSR 315, 209, or 342 or consent of instructor) | Both |
| CSR 40600 | E-Retailing | Option | CSR | First semester Retail Management Senior or higher | Fall |
| HDFS 34800 | Admin. Of Social Servicefor Not-For-Profit Organizations | Option | OPEN | HDFS 20100 or CDFS 21000 with C- or higher | Fall |
| HK 38500 | Methods of Health Promotion and Education | Option | Some HK/NUTR | HK 26600 or HK 36500 | Both |
| HK 42400 | Health and Fitness Program Management | Option | Some HK/NUTR | HK 26600 | Spring |
| HTM 31200 | Human Resources Mgmt. for the Service Industries | Option | HTM | Second semester Freshman or higher | F/Sp or SS |
| HTM 44100 | Financial Management for the Hospitality Industry | Option | HTM | Pre-req: HTM 14100, 24100; Co-req: HTM 34100 | Variable |
| HTM 49900 | Feasibility Studies & Business Development in HTM | Option | HTM | Upper Division | Both |
| NUR 41701 | Leadership in Nursing | Option | NUR | NUR 31401, 31501, 31601, 31701 & 31901 | Both |
| LIBERAL ARTS | | Type | Major | Pre-reqs & Notes | Semester |
| COM 21700 | Science Writing and Presentations | Option | OPEN | | F/Sp or SS |
| COM 31400 | Advanced Presentational Speaking | Option | OPEN | Second semester Sophomore, COM 11400 or COM R1100 | F/Sp or SS |
| COM 43500 | Communication and Emerging Technologies | Option | OPEN | Junior standing or higher | Both |
| COM 44400 | Introduction to Communication and Social Entrepreneurship | Option | OPEN | | TBA |
| CHNS 22400 | Chinese Level IV: Business Chinese | Option | Open | CHNS 20100 | Spring |
| ENGL 42000*EO_ Sections Only | Business Writing *(for Entrepreneurship Certificate Students)* | Option | OPEN | Special Sections For ENTR Students only , ENGL 106 or 108 | Both |
| FR 32400 | Business French II | Option | OPEN | See Departmental Prerequisites | Variable |
| FR 42400 | Business French III | Option | OPEN | See Departmental Prerequisites | Variable |
| FVS 26100 | Foundations of Cinema | Option | Intrdisc Film/Vid | | Both |

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| FVS 44200 | Digital Film Production | Option | Intrdisc Film/Vid | FVS 26100 | Spring |
| FVS 49900 | Capstone in Film/Video/Media Production | Capstone | Intrdisc Film/Vid | Instructor permission | Both |
| GER 42400 | Business German | Option | OPEN | GER 30200 | Fall |
| GER 52400 | German for International Trade | Option | OPEN | GER 42400 or Instructor permission | Spring |
| SPAN 42400 | Business Spanish | Option | OPEN | SPAN 30200 | Both |
| LIBRARIES | | Type | Major | Pre-reqs & Notes | Semester |
| ILS 59500 Specific Title Only | Information Strategies for Entrepreneurship and Innovation | Option | OPEN | | Variable |
| MANAGEMENT | | Type | Major | Pre-reqs & Notes | Semester |
| MGMT 11000 | Intro to MGMT & Info Strat | Option | MGMT | | Both |
| MGMT 30400 | Introduction to Financial Management | Option | Non-MGMT | Previously listed as MGMT 39000 | F/Sp or SS |
| MGMT 42300 | New Product Development | Option | MGMT | MGMT 32400 | Spring |
| MGMT 42910 | Experiential Marketing | Option | MGMT | Consult Instructor, formerly known as Entrepreneurial Marketing | Variable |
| MGMT 44810 | Technology Strategy | Option | MGMT | Frist semester Senior or higher, MGMT 35200 | Variable |
| MGMT 45200 | Manufacturing Strategy And Process Innovation | Option | MGMT | MGMT 45100 Min Gr of C- or UG level MGMT 35200 Min Gr of C-) and (UG level MGMT 46000 Min Gr of C- or UG level MGMT 36100 Min Gr of C-) | Both |
| MGMT 48400 | Management of New Enterprises | Capstone | OPEN | | Fall |
| MGMT 48800 | Data-Driven Decisions in Digital Marketing | Option | MGMT | Junior level or higher | Variable |
| MGMT 59000 Specific Title Only | Student Managed Venture Fund | Option | OPEN | Individual Study, Consent of Instructor | Both |
| PHARMACY | | Type | Major | Pre-reqs & Notes | Semester |
| PHRM 83100 | Health Care Systems | Option | PHARM | P-1 Standing | Spring |
| PHRM 84900 | Population Health Management | Option | PHARM | P-2 Standing | Spring |
| PHRM 86900 | Practice Management & Marketing of Professional Services | Capstone | PHARM | P-3 Standing | Spring |
| PHRM 87000 | Health Policy Applications | Option | PHARM | P-3 Standing | Fall |
| POLYTECHNIC | | Type | Major | Pre-reqs & Notes | Semester |
| AT 41200 | Aviation Finance | Option | AT | MGMT 20100 | Fall |
| AT 49800 | Aviation Technology Capstone | Option | AT | Senior standing | Both |
| BCM 45500 | Construction Company Management | Option | BCM Major/Minor | Senior standing | Both |
| BCM 48701 | Construction Capstone | Capstone | BCM | Senior standing, BCM 34500 & BCM 45500 | Both |
| CGT 25001, 41101, 41201, and 45001 | Professional Practice & Contemporary Problems in CGT Sequence | Option | CGT | Sophomores and Seniors | Variable |
| CGT 41100 and 45000 | Contemporary Prob. in Applied Comp. Grphcs + Professional Pract. | Option | CGT | Junior standing or higher | Both |
| CNIT 48000 | Managing IT Projects | Option | C&IT | Second semester Junior | F/Sp or SS |
| ECET 43000 and 46000 or ECET 43100 and 46100 | Electrical and Electronic Product and Program Mgmt & Project Design and Development | Capstone | ECET or consent | ECET 27000, ECET 38001+ 6 hrs ECET elective or consent of dept. | Yr Long Seq |
| IT 22600 | Biotechnology Lab I | Option | OPEN | | Fall |
| IT 33000 | Industrial Sales and Sales Management | Option | OPEN | *IT 23000 is now TLI 21400 | Spring |
| IT 43400 | Global Transportation and Logistics Management | Option | OPEN | *IT 23000 is now TLI 21400 | Variable |
| MET 40100 and 40200 | Capstone Projects I and Capstone Projects II | Capstone | MET or consent | MET 34600(concurrent ok), MET 10200, MET 23000, and MET 28400 | Yr Long Seq |
| MFET 48000 and MFET 48100 | Project Planning for Integration and Integration & Manufacturing Systems | Capstone | MFET or consent | MFET 37400 | Yr Long Seq |
| TLI 21400 | Industrial Supply Chain Management | Option | OPEN | Formerly IT 23000 | SS |
| TLI 31400 | Leading Innovation in Organizations | Option | TLI | | Both |
| TLI 31500 | New Product Development | Option | TLI | | Fall |
| TLI 33400 | Economic Analysis For Technology Systems | Option | OPEN | MA 15800 or higher: Formerly IET 45100/IT 45000 | F/Sp or SS |
| TLI 48390 and TLI 48395 | Capstone I: Prob ID & Analysis and Capstone II: Facility Design | Capstone | TLI | (UG level TLI 43530 Min Gr of D- or UG level IT 44200 Min Gr of D-) and UG level MET 24500 Min Gr of D- | Both |
| TLI 48490 and TLI 48495 | SCMT Cap I Strategic Planning and Org Leadership Capstone I | Capstone | TLI | Senior Status and Undergraduate level TLI 41400 Minimum Grade of C | Both |
| SCIENCE | | Type | Major | Pre-reqs & Notes | Semester |
| COM 21700 | Science Writing and Presentations | Option | OPEN | | F/Sp or SS |
| CS 40700 | Software Engineering Senior Project | Option | CS | Senior Status | F/Sp or SS |
| "Great Issues" | <i>All Great Issues in Science Courses-view link for specific offerings</i> | Option | OPEN | www.science.purdue.edu/Current_Students/curriculum_and_degree_requirements/great-issues.html | Variable |
| SCI 49000 Specific Title Only | Dean's Executive Forum | Option | Jrs & Srs CoS | Junior standing or higher CoS | Fall |

Aug-19

See www.purdue.edu/entr for updated list