ENTREPRENEURSHIP AND INNOVATION, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description

Skills attributed to entrepreneurial behavior and innovative thinking are beneficial for students in most if not all majors, and are critical to career success in established companies and new organizations to address pressing needs around the globe. This interdisciplinary minor uses problem-based learning and active learning pedagogies to prepare students to create value and be agents of positive change in their discipline and their careers. The courses develop skills, knowledge and values in problem solving, innovation, opportunity recognition, self-efficacy, leadership, ethics, communications and learning from failure. To meet the students' broad range of entrepreneurship and innovation interests, core courses (9 credits) establish foundational knowledge, and then students select a concentration cluster aligned to specific contexts such as entrepreneurship in food and bio-innovation, technology, bio-tech, the arts, media, hospitality, digital, social entrepreneurship, advocacy or new ventures. Students who complete the ENTI minor will be better prepared to be innovation leaders in their chosen career path, such as being entrepreneurial in an existing company (intrapreneurship), engaging in a start-up venture full or part-time, finding avenues to leverage their art or craft, or creating alliances to meet social or business needs.

Advising for students in this minor and approval of curriculum exceptions will be available through the Entrepreneurship and Innovation (ENTI) adviser for each cluster.

Arts Cluster (College of Arts and Architecture)

This specialization prepares students for entrepreneurial action in an arts context. To “entrepreneur” in the arts, one must understand aesthetic value and what drives people to consume aesthetic products. By learning how various arts markets view and consume, emerging arts entrepreneurs envision “products” with specific markets in mind and craft marketing strategies to communicate aesthetic value to audiences. Upon learning how the non-profit and for-profit arts ecologies operate, students envision and develop their arts career and venture within the context, tying together the aesthetic and cultural value of their art form with the business acumen necessary to launch and sustain an entrepreneurial arts enterprise.

Bio-Tech Cluster (Eberly College of Science)

This specialization prepares students to develop an entrepreneurial mindset and apply innovative strategies to find solutions that benefit humans, animals, and the environment. Students will also develop unique skills in career readiness such as teamwork, leadership and communication. Students who complete this cluster will be better able to take an interdisciplinary approach to solving problems through Biotechnology.

Digital Entrepreneurship and Innovation Cluster (College of Information Sciences and Technology)

This specialization prepares a student to harness digital technologies and digital business models to develop their own concepts into commercial concerns or to contribute to the innovation activities of existing organizations (i.e., intrapreneurship). The IST Digital Entrepreneurship & Innovation cluster focuses on the impact of Information Technology (IT)-driven innovation across multiple industry sectors including for-profit, non-profit and governmental organizations. IT-driven innovation has created new business opportunities for both entrepreneurs and intrapreneurs and is key to increasing efficiencies and expanding the linkage between user-centric products and services. Students who complete this cluster will gain a foundational understanding of emerging information technologies, the components of digital business models, and implementation and design techniques that meet or exceed user-centric requirements.

Entrepreneurship as Advocacy Cluster (College of the Liberal Arts)

This specialization empowers students to utilize the process of entrepreneurship as a form of advocacy to improve the human condition and enhance public life. The cluster leverages a critique of the business paradigm of “maximize shareholder value” to encourage students to create organizations that can be a force for positive change in society.

Food and Bio-innovation Cluster (College of Agricultural Sciences)

This specialization will develop future entrepreneurs and innovators to address opportunities and challenges in the agriculture and life sciences space. The cluster focuses on the cornerstone challenge for agriculture: producing food for the world with entrepreneurial activity and innovation to develop, convert and use biological materials and natural resources (plants, animals, ecosystems and organisms, etc.) to meet the material and energy needs of society. Students are encouraged to take a series of courses in the cluster that complement their personal venture interests and engage in a series of immersive venturing experiences that can range from creating new ventures to mentoring with seasoned entrepreneurs or working within entrepreneurial organizations.

Hospitality Management Cluster (College of Health and Human Development)

This specialization prepares a student to create and develop novel but sound entrepreneurial concepts related to the hospitality industry in such businesses as lodging and food service. For example, through this cluster, students could develop and refine entrepreneurial concepts related to hotels, motels, bed & breakfasts, quick-service restaurants, upscale restaurants, mobile dining such as food trucks, on-line travel agencies, and other on-line ventures. The minor is also designed to prepare students to be innovators within existing organizations. Students who complete this cluster develop skills in creating business plans, feasibility studies, competitive analysis, supply and demand analysis, market analysis and financial forecasting. Students in this concentration are expected to include a mix of majors, not only students majoring in hospitality management.

New Media Cluster (College of Communications)

This specialization examines opportunities and challenges in the creation and distribution of news, entertainment and information. The same technological innovations that make it easy to start a media enterprise have introduced a host of editorial and business complexities. Media production and distribution skills and knowledge of media business, technologies, law and ethics are critical.
New Ventures Cluster (Smeal College of Business)
This specialization helps students develop the skills and ways of thinking required to create, develop, innovate and manage entrepreneurial companies. Students learn about acquiring and balancing limited resources, changing business direction quickly, building a coherent team, managing intellectual property, and creating new markets. This cluster develops a wide range of managerial skills not usually demanded in one person within a larger organization.

Social Entrepreneurship Cluster (College of Engineering)
This specialization focuses on creating sustainable social impact within marginalized communities. The cluster grounds students in social business, user-centered design for extreme affordability, systems thinking and scholarly research to develop innovative and appropriate technology-based solutions to address compelling global challenges. Travel and fieldwork in which students work in multidisciplinary teams to research, design, test, and commercialize ventures are required.

Technology Based Entrepreneurship Cluster (College of Engineering)
This specialization develops skills and knowledge through a practical entrepreneurial experience in a technology based environment. Technology and engineering design topics form the practical content of the cluster. General entrepreneurial business topics and tracking current and emerging technologies provide additional foundation structure for this cluster. Students understand and apply fundamental engineering design skills, product feasibility analysis and marketing techniques to move innovative products toward commercialization.

What is Entrepreneurship and Innovation?
Entrepreneurship and innovation is an interdisciplinary field that deals with new enterprise creation and the process of change and transformation in methods, ideas, and products. It is about problem-solving and the creation of value and positive change in business and society.

You Might Like This Program If...
• You want to learn what entrepreneurs do and how innovators create and solve problems in any field. Whatever you’re majoring in or whatever career you’ve chosen, entrepreneurs and innovators are there already making a positive difference. You can learn to be one, too.
• You’re passionate about starting your own business, non-profit, or social enterprise (entrepreneurship) or pursuing a career as an entrepreneur and innovator.
• You want to learn the skills and develop the mindset of an entrepreneur and innovator.

MORE INFORMATION ABOUT ENTREPRENEURSHIP AND INNOVATION (https://cpsse.psu.edu/enti/)

Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for the Minor</td>
<td>18-19</td>
</tr>
</tbody>
</table>

Requirements for the Minor
A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10).

In addition, at least six credits of the minor must be unique from the prescribed courses required by a student’s major(s).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 310</td>
<td>Entrepreneurial Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ENGR/IST/MGMT 425</td>
<td>New Venture Creation</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 215</td>
<td>Entrepreneurial Mindset</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Courses: Require a grade of C or better</td>
</tr>
<tr>
<td>Select 9 or more credits from one of the clusters listed below</td>
</tr>
</tbody>
</table>

1 Students may not use a required course from their major in their chosen cluster. Other courses, such as technical electives, out-of-college electives, and general education courses may be able to be used to meet requirements in major as well as the ENTI Minor. In all clusters, students may substitute up to 3 credits of research topics, internship or independent studies courses focused on relevant entrepreneur or innovation topics in consultation with an adviser. Each cluster is structured to provide a clear course “path” so any student from any major can complete the cluster and therefore the ENTI minor.

Arts Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA 323</td>
<td>Arts Enterprise Development</td>
<td>3</td>
</tr>
<tr>
<td>AA 424</td>
<td>Arts Entrepreneurship Capstone Research Project</td>
<td>3</td>
</tr>
<tr>
<td>Choose one 3-credit course from the following list:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA 121</td>
<td>Design Thinking and Creativity</td>
<td>3</td>
</tr>
<tr>
<td>AA 322</td>
<td>Arts Marketing</td>
<td></td>
</tr>
<tr>
<td>GD 304</td>
<td>Practical Communications</td>
<td></td>
</tr>
<tr>
<td>PHOTO 404</td>
<td>Professional Photography Capstone Seminar: Self-Marketing and Professional Presence</td>
<td></td>
</tr>
</tbody>
</table>

1 AA 323 and AA 424 must be taken in sequence: AA 323 in Fall, AA 424 in Spring.

2 It is possible to substitute other 3-credit courses not on this list, per Arts Cluster Director approval. Can be taken concurrently, do not need to be taken in sequence.

Bio-Tech Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMB/MICRB 251</td>
<td>Molecular and Cell Biology I</td>
<td>3-4</td>
</tr>
<tr>
<td>BMB 251H</td>
<td>Molecular and Cell Biology I</td>
<td></td>
</tr>
<tr>
<td>BIOL 230W</td>
<td>Biology: Molecules and Cells</td>
<td></td>
</tr>
<tr>
<td>BIOL 230M</td>
<td>Honors Biology: Molecules and Cells</td>
<td></td>
</tr>
<tr>
<td>MICRB 201</td>
<td>Introductory Microbiology</td>
<td></td>
</tr>
<tr>
<td>MICRB 201H</td>
<td>Introductory Microbiology</td>
<td></td>
</tr>
</tbody>
</table>
### Entrepreneurship and Innovation, Minor

**Required Courses**

- **IST 237** Digital Entrepreneurship
- **IST 337** Technologies for Digital Entrepreneurs
- **IST 437** Digital Design & Innovation

**Capstone Courses**

Choose one of the following capstone courses for the Bio-Tech cluster:

- **BIOTC/MICRB 416** Microbial Biotechnology
- **BIOTC/BIOL/HORT 459** Plant Tissue Culture and Biotechnology

1. Note: if a course is taken to satisfy 400-level elective, it cannot also be used to satisfy capstone requirement.

### Digital Entrepreneurship and Innovation Cluster

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 237</td>
<td>Digital Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>IST 337</td>
<td>Technologies for Digital Entrepreneurs</td>
<td>3</td>
</tr>
<tr>
<td>IST 437</td>
<td>Digital Design &amp; Innovation</td>
<td>3</td>
</tr>
</tbody>
</table>

1. IST 237 is prerequisite for IST 437.

### Entrepreneurship as Advocacy Cluster

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 202</td>
<td>Innovation and Entrepreneurship in the Liberal Arts</td>
<td>3</td>
</tr>
<tr>
<td>LA 424</td>
<td>Liberal Arts Venture Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 credits from the following list:

- **AFAM 100N** Black Freedom Struggles
- **AFAM/SOC/WMNST 103** Racism and Sexism
- **AFAM/LHR/WMNST 136** Race, Gender, and Employment
- **AFAM/HIST/WMNST 213Y** African American Women's History
- **CAS/ENGL 137H** Rhetoric and Civic Life
- **CAS 175N** Persuasion and Propaganda
- **CAS 210** Landmark Speeches on Democracy and Dissent
- **CAS 220** Persuasion
- **CAS 222N/AYFCE 211N/CIVCM 211N** Foundations: Civic and Community Engagement
- **CAS 321** Rhetoric and Law
- **CAS 373** The Rhetorics of War and Peace
- **ENGL 162N** Communicating Care
- **ENGL 228** Introduction to Disability Studies in the Humanities
- **ENGL 236N** Inequality: Economics, Philosophy, Literature
- **LHR 100** Exploring Work and Employment
- **LHR 201** Employment Relationship: Law and Policy
- **PLSC 202** American Public Policy
- **PLSC 210N** Rights in America
- **PLSC 291** Introduction to Peace and Conflict Studies
- **PSYCH 100** Introductory Psychology
- **SOC 1** Introductory Sociology
- **SOC 5** Social Problems
- **SOC/CRIM/CRIMJ 12** Criminology
Entrepreneurship and Innovation, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 23</td>
<td>Population and Policy Issues</td>
<td></td>
</tr>
<tr>
<td>WMNST 100</td>
<td>Introduction to Women's and Gender Studies</td>
<td></td>
</tr>
<tr>
<td>WMNST 105N</td>
<td>Living in a Diverse World</td>
<td></td>
</tr>
<tr>
<td>WMNST 200</td>
<td>Global Feminisms</td>
<td></td>
</tr>
</tbody>
</table>

1 LA 202 and LA 424 should be taken in sequence.

### Food and Bio-innovation Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEE 201</td>
<td>Interpersonal Skills for Tomorrow's Leaders</td>
<td></td>
</tr>
<tr>
<td>AEE 311</td>
<td>Developing Youth Leadership through Organization and Program Structure</td>
<td></td>
</tr>
<tr>
<td>AGBM 200</td>
<td>Introduction to Agricultural Business Management</td>
<td></td>
</tr>
<tr>
<td>AGBM 302</td>
<td>Food Product Marketing</td>
<td></td>
</tr>
<tr>
<td>AGBM 308W</td>
<td>Strategic Decision Making in Agribusiness</td>
<td></td>
</tr>
<tr>
<td>AGBM 338</td>
<td>Agribusiness in the Global Economy</td>
<td></td>
</tr>
<tr>
<td>ANSC 201</td>
<td>Animal Science</td>
<td></td>
</tr>
<tr>
<td>ANSC 306</td>
<td>Swine Production and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 308</td>
<td>Sheep and Goat Production and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 309</td>
<td>Beef Cattle Production and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 310</td>
<td>Dairy Cattle Production and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 311</td>
<td>Poultry Production and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 324</td>
<td>Value Determination of Meat Animals</td>
<td></td>
</tr>
<tr>
<td>ANSC 327</td>
<td>Horse Production and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 350</td>
<td>Dairy Problem Solving</td>
<td></td>
</tr>
<tr>
<td>BRS/BE 391</td>
<td>Communication Skills for BE and ABSM Students</td>
<td></td>
</tr>
<tr>
<td>BRS/BE 392</td>
<td>Leadership and Ethics for BE and ABSM Students</td>
<td></td>
</tr>
<tr>
<td>CED 375</td>
<td>Community, Local Knowledge, and Democracy</td>
<td></td>
</tr>
<tr>
<td>ERM 300</td>
<td>Basic Principles and Calculations in Environmental Analysis</td>
<td></td>
</tr>
<tr>
<td>FDSC 200</td>
<td>Introductory Food Science</td>
<td></td>
</tr>
<tr>
<td>FDSC 206</td>
<td>Improving Food Quality</td>
<td></td>
</tr>
<tr>
<td>HORT 250</td>
<td>Landscape Contracting Design/Build Principles</td>
<td></td>
</tr>
</tbody>
</table>

Select up to 6 credits of the following 200-300 level courses in the College of Agricultural Sciences:

### Hospitality Management Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 482</td>
<td>Hospitality Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>or HM 484</td>
<td>Hospitality Entrepreneurship and Innovation</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits from the following:

- HM 413 New Product Development for Commercial Foodservice
- HM 432 Contemporary Issues in Restaurant Management
- HM 483 Revenue Management
- HM 496 Independent Studies

### New Media Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 271</td>
<td>Principles of Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits from the following:

- COMM 361 Entrepreneurial Journalism
- COMM 362 Podcasting
- COMM 461 Magazine Writing
- COMM 461A Digital Magazine Production
- COMM 484 Emerging Telecommunications Technologies
- COMM 484A Wireless Devices and Global Markets
- COMM 492 Internet Law and Policy
- COMM 493 Entrepreneurship in the Information Age

### New Ventures Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 241  &amp; BA 242</td>
<td>Legal Environment of Business and Social and Ethical Environment of Business</td>
<td></td>
</tr>
<tr>
<td>or BA 243</td>
<td>Social, Legal, and Ethical Environment of Business</td>
<td></td>
</tr>
<tr>
<td>or BLAW 243</td>
<td>Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>or BLAW 341</td>
<td>Business Law I: Introduction to Contracts, Liability Issues, and Intellectual Property</td>
<td></td>
</tr>
<tr>
<td>BA 250</td>
<td>Small Business Management</td>
<td></td>
</tr>
<tr>
<td>BA 322</td>
<td>Negotiation Skills for Business Professionals</td>
<td></td>
</tr>
<tr>
<td>MGMT 365</td>
<td>Social Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>MGMT/ENGR/IST 426</td>
<td>Invention Commercialization</td>
<td></td>
</tr>
<tr>
<td>MGMT 427</td>
<td>Managing an Entrepreneurial Start-Up Company</td>
<td></td>
</tr>
</tbody>
</table>

Select 6-7 credits from the following category:

- AEE 201 Interpersonal Skills for Tomorrow’s Leaders
- AEE 311 Developing Youth Leadership through Organization and Program Structure
- AGBM 200 Introduction to Agricultural Business Management
- AGBM 302 Food Product Marketing
- AGBM 308W Strategic Decision Making in Agribusiness
- AGBM 338 Agribusiness in the Global Economy
- ANSC 201 Animal Science
- ANSC 346 Animal Science
- ANSC 306 Swine Production and Management
- ANSC 308 Sheep and Goat Production and Management
- ANSC 309 Beef Cattle Production and Management
- ANSC 310 Dairy Cattle Production and Management
- ANSC 311 Poultry Production and Management
- ANSC 324 Value Determination of Meat Animals
- ANSC 327 Horse Production and Management
- ANSC 350 Dairy Problem Solving
- BRS/BE 391 Communication Skills for BE and ABSM Students
- BRS/BE 392 Leadership and Ethics for BE and ABSM Students
- CED 375 Community, Local Knowledge, and Democracy
- ERM 300 Basic Principles and Calculations in Environmental Analysis
- FDSC 200 Introductory Food Science
- FDSC 206 Improving Food Quality
- HORT 250 Landscape Contracting Design/Build Principles
- HORT 453 Flower Crop Production and Management
- TURF 436W Case Studies in Turfgrass Management
- CED 417 Power, Conflict, and Community Decision Making
- CED 425 International Community and Economic Development
- CED 430W Principles of Community Economic Development
- ERM 411 Legal Aspects of Resource Management
- ERM 412 Resource Systems Analysis
- ERM 413W Case Studies in Ecosystem Management
- FDSC 411 Managing Food Quality
- FDSC 430 Unit Operations in Food Processing
- FDSC 444 Arguing about Food
- FDSC/INTAG 460 International Food Production
- FOR 440 Forest and Conservation Economics
- HORT 410W Issues in Landscape Contracting
- HORT/AGBM 455 Retail Horticulture Business Management
- TURF 436W Case Studies in Turfgrass Management
- HM 482 Hospitality Real Estate
- HM 484 Hospitality Entrepreneurship and Innovation
- HM 413 New Product Development for Commercial Foodservice
- HM 432 Contemporary Issues in Restaurant Management
- HM 483 Revenue Management
- HM 496 Independent Studies
- COMM 271 Principles of Journalism
- COMM 361 Entrepreneurial Journalism
- COMM 362 Podcasting
- COMM 461 Magazine Writing
- COMM 461A Digital Magazine Production
- COMM 484 Emerging Telecommunications Technologies
- COMM 484A Wireless Devices and Global Markets
- COMM 492 Internet Law and Policy
- COMM 493 Entrepreneurship in the Information Age
- BA 241 Legal Environment of Business
- BA 242 Social and Ethical Environment of Business
- BA 243 Social, Legal, and Ethical Environment of Business
- BA 243 Legal Environment of Business
- BA 250 Small Business Management
- BA 322 Negotiation Skills for Business Professionals
- MGMT 365 Social Entrepreneurship
- MGMT/ENGR/IST 426 Invention Commercialization
- MGMT 427 Managing an Entrepreneurial Start-Up Company
- MGMT 427 Managing an Entrepreneurial Start-Up Company
Entrepreneurship and Innovation, Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 427W</td>
<td>Managing an Entrepreneurial Start-up</td>
</tr>
<tr>
<td>MGMT 451</td>
<td>Business, Ethics, and Society</td>
</tr>
<tr>
<td>MGMT 451W</td>
<td>Business, Ethics, and Society</td>
</tr>
<tr>
<td>MGMT 453</td>
<td>Creativity and Innovation</td>
</tr>
</tbody>
</table>

Select 3 credits from the following category:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 426</td>
<td>Invention Commercialization</td>
</tr>
<tr>
<td>MGMT 427</td>
<td>Managing an Entrepreneurial Start-Up Company</td>
</tr>
<tr>
<td>MGMT 427W</td>
<td>Managing an Entrepreneurial Start-up</td>
</tr>
<tr>
<td>MGMT 451</td>
<td>Business, Ethics, and Society</td>
</tr>
<tr>
<td>MGMT 451W</td>
<td>Business, Ethics, and Society</td>
</tr>
<tr>
<td>MGMT 453</td>
<td>Creativity and Innovation</td>
</tr>
</tbody>
</table>

1 Courses cannot double count in these categories.

Social Entrepreneurship Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 451</td>
<td>Social Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>EDSGN 452</td>
<td>Projects in Humanitarian Engineering</td>
<td>2</td>
</tr>
<tr>
<td>EDSGN 453</td>
<td>Design for Developing Communities</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 454</td>
<td>Humanitarian Engineering and Social</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship Field Experience</td>
<td></td>
</tr>
<tr>
<td>ENGR 455</td>
<td>Humanitarian Engineering and Social</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship Reflection and Research Dissemination</td>
<td></td>
</tr>
</tbody>
</table>

Technology Based Entrepreneurship Cluster

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 407</td>
<td>Technology-Based Entrepreneurship 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 411</td>
<td>Entrepreneurship Business Basics 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 415</td>
<td>Launching Innovation: Ideas to Opportunities</td>
<td>3</td>
</tr>
</tbody>
</table>

1 ENGR 407 and ENGR 411 should be taken in sequence or concurrent.

Academic Advising

The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy/)

University Park

Arts Entrepreneurship Cluster

Jonathan Gangi

Assistant Professor of Music and Arts Entrepreneurship

College of Arts and Architecture
104G Borland Building
University Park, PA 16802
814-865-9523
jjg27@psu.edu

Bio-Tech Cluster

Beatrice Sirakaya
Assistant Teaching Professor
201 South Frear Laboratory
University Park, PA 16802
814-865-8192
bxs205@psu.edu

Digital Entrepreneurship and Innovation Cluster

Betsy Campbell
Associate Teaching Professor and Undergraduate Studies
Entrepreneurship Academic Program Coordinator
College of Information Sciences and Technology
E114 Westgate Building
University Park, PA 16802
bjc28@psu.edu

Entrepreneurship as Advocacy Cluster

Chris Spielvogel
Associate Teaching Professor
College of the Liberal Arts
227A Sparks Building
University Park, PA 16802
814-863-6260
jcs111@psu.edu

Food and Bio-Innovation Cluster

Mark Gagnon
Harbaugh Entrepreneurship Scholar
College of Agricultural Sciences
208A Armsby Building
University Park, PA 16802
814-865-0469
mag199@psu.edu

Hospitality Management Cluster

William Kidd
Instructor
School of Hospitality Management, College of Health and Human Development
228 Mateer Building
University Park, PA 16802
814-863-4847
wrk2@psu.edu

New Media Cluster

Anne Hoag
Associate Professor
Donald P. Bellisario College of Communications
105b Carnegie Building
University Park, PA 16802
814-865-7084
amh13@psu.edu

New Ventures Cluster

Jamey Darnell
Clinical Assistant Professor of Entrepreneurship
417 Business Building

University Park
Contact

University Park
UNDERGRADUATE EDUCATION
Intercollege Minor in Entrepreneurship and Innovation
105b Carnegie Building
University Park, PA 16802
814-865-7084
amh13@psu.edu

Abington
DIVISION OF SOCIAL SCIENCES
1600 Woodland Road
Abington, PA 19001
215-881-7388
pah224@psu.edu

Beaver
100 University Drive
Monaca, PA 15061
724-773-3894
axk60@psu.edu

Berks
EBC DIVISION
Gaige Building
Reading, PA 19610
610-396-6137
BKEntrepreneurship@psu.edu

https://berks.psu.edu/enti-minor-overview

Erie
BLACK SCHOOL OF BUSINESS
281 Jack Burke Research and Economic Development Center
5101 Jordan Road
Erie, PA 16563
814-898-6107
behrend-business@psu.edu

https://behrend.psu.edu/school-of-business

Mont Alto
ACADEMIC AFFAIRS
Mont Alto, PA 17237
717-749-6051
mad10@psu.edu