

Industrial Engineering and Operations Research and Business Administration

M.E.T. at a Glance: One Program, Two Bachelor of Science (BS) Degrees

The Industrial Engineering and Operations Research and Business Administration simultaneous degree is part of the Management, Entrepreneurship, & Technology Program. The M.E.T. Program aims to educate leaders with a seamless understanding of technology innovation, from idea to real-world impact.

M.E.T. students earn two Bachelor of Science degrees in one program that combines the best of the top-ranked College of Engineering and Haas School of Business. The integrated curriculum is completed in four years. Internships, career coaching, and other enrichment activities provide ample opportunity for hands-on experience with innovation and entrepreneurship. Each M.E.T. cohort is small, allowing for close mentoring and a tight-knit community.

Admission to the M.E.T. Program

The M.E.T. Program seeks inquisitive, self-motivated students with a passion for finding and solving big problems. It is highly competitive and is open to freshmen during the UC application period (November 1 - 30). Freshman admission is limited to a maximum of 50 students. Beginning Fall 2021, current UC Berkeley students in the College of Engineering majoring in one of the M.E.T. tracks may apply to M.E.T. via the Continuing Student Admissions process.

For further information, please see the M.E.T. website (<http://met.berkeley.edu>).

Accreditation

The IEOR undergraduate degree program in the College of Engineering is accredited by ABET. The Undergraduate Business Degree Program is accredited by The Association to Advance Collegiate Schools of Business (AACSB).

In addition to the University, campus, and M.E.T. Program requirements, listed on the College Requirements tab, students must fulfill the below requirements.

General Guidelines

1. A minimum of 38 upper division business units are required, and a minimum of 12 upper division non-business units are required. (Upper division IEOR classes will fulfill the 12 upper division non-business units.)
2. Students must complete the College Requirements (p. 3) and the Major Requirements.
3. Students must complete the degree program in eight semesters. (Summer Session is not required for degree completion in eight semesters.)
4. All Haas business courses must be taken for a letter grade, with the exception of UGBA 194 ([http://guide.berkeley.edu/search/?P=UGBA](http://guide.berkeley.edu/search/?P=UGBA%20194)

20194), UGBA 198 ([http://guide.berkeley.edu/search/?P=UGBA](http://guide.berkeley.edu/search/?P=UGBA%20198) 20198) and UGBA 199 ([http://guide.berkeley.edu/search/?P=UGBA](http://guide.berkeley.edu/search/?P=UGBA%20199) 20199) (only offered *Pass/No Pass*).

5. All technical courses that can be used to fulfill a requirement must be taken for a letter grade.
6. Students who receive a grade of D+ or lower in a core UGBA course must repeat the course until they achieve a grade of C- or better.
7. Students must complete their business prerequisite courses (including Reading & Composition A & B) by the spring semester of their sophomore (2nd) year.
8. Two M.E.T. Special Topics courses are required. M.E.T. Special Topics courses will count as upper division business units.
9. Students in this program must adhere to all policies and procedures of the College of Engineering and the Haas School of Business.

For information regarding University and campus requirements, Reading and Composition, breadth, class schedule, minimum academic progress, and unit requirements, please see the College Requirements (p. 3).

Lower Division Requirements

UGBA 10	Principles of Business	3
ECON 1	Introduction to Economics	4
MATH 1A	Calculus	4
MATH 1B	Calculus	4
MATH 53	Multivariable Calculus	4
MATH 54	Linear Algebra and Differential Equations	4
CHEM 1A & 1AL	General Chemistry and General Chemistry Laboratory ¹	4-5
	or CHEM 4A General Chemistry and Quantitative Analysis	
	or BIOLOGY 1A General Biology Lecture & 1AL and General Biology Laboratory	
	or BIOLOGY 1B General Biology Lecture and Laboratory	
PHYSICS 7A	Physics for Scientists and Engineers	4
PHYSICS 7B	Physics for Scientists and Engineers	4
ENGIN 7	Introduction to Computer Programming for Scientists and Engineers (Programming)	4
	Reading & Composition Parts A and B	4-4
Programming		
	Select one of the following: ²	4
	COMPSCI C8 Foundations of Data Science [4]	
	COMPSCI 61A The Structure and Interpretation of Computer Programs [4]	
Engineering Breadth Electives		
	Select at least 9 units from the following:	9
	BIO ENG 10 Introduction to Biomedicine for Engineers [4]	
	BIO ENG 102 Biomechanics: Analysis and Design [4]	
	CIV ENG 11 Engineered Systems and Sustainability [3]	
	CIV ENG C30/ Introduction to Solid Mechanics [3] MEC ENG C85	
	CIV ENG 60 Structure and Properties of Civil Engineering Materials [3]	
	CIV ENG 70 Engineering Geology [3]	
	CIV ENG 126 Engineering Dynamics and Vibrations [3]	
	CIV ENG 132 Applied Structural Mechanics [3]	
	CIV ENG 155 Transportation Systems Engineering [3]	

DES INV 15	Design Methodology [3]	
EECS 16A	Designing Information Devices and Systems I [4]	
EECS 16B	Designing Information Devices and Systems II [4]	
ENGIN 11	A Hands-on Introduction to Radiation Detection: Getting to know our Radioactive World [3]	
ENGIN 26	Three-Dimensional Modeling for Design [2]	
ENGIN 29	Manufacturing and Design Communication [4]	
	or ENGIN 29 Visualization for Design	
	& ENGIN 27 and Introduction to Manufacturing and Tolerancing	
ENGIN 40	Engineering Thermodynamics [4]	
MAT SCI 45	Properties of Materials [3]	
MAT SCI 45L	Properties of Materials Laboratory [1]	
MAT SCI 111	Properties of Electronic Materials [4]	
MEC ENG 40	Thermodynamics [3]	
MEC	Introduction to Solid Mechanics [3]	
ENG C85/ CIV ENG C30		
MEC ENG 126	The Science and Engineering of Cooking [4]	
MEC ENG 132	Dynamic Systems and Feedback [3]	

¹ CHEM 4A is for students majoring in chemistry or a closely related field. CHEM 1A and CHEM 1AL, or CHEM 4A are prerequisites for BIOLOGY 1A.

² Students must acquire fluent programming skills as demonstrated by completion of coursework in a high-level language such as Python, C, C++ or Java. This requirement may be completed by taking COMPSCI 61A or COMPSCI C8 or equivalent. The CS 9xx series self-paced courses are intended for those already skilled as programmers in a high-level language to learn a second language and thus are not appropriate for meeting this requirement.

Upper Division Requirements

IEOR Upper Division

ENGIN 120	Principles of Engineering Economics	3
	or IND ENG 12 Principles of Engineering Economics	
IND ENG 160	Nonlinear and Discrete Optimization	3
IND ENG 162	Linear Programming and Network Flows	3
IND ENG 165	Engineering Statistics, Quality Control, and Forecasting	4
IND ENG 171	Technology Firm Leadership ⁴	3
IND ENG 172	Probability and Risk Analysis for Engineers ¹	4
	or STAT 134 Concepts of Probability	
	or STAT/ DATA C140 Probability for Data Science	
IND ENG 173	Introduction to Stochastic Processes	3
IND ENG 174	Simulation for Enterprise-Scale Systems	3
IND ENG 180	Senior Project	4

IEOR Electives

Select 5 courses from the following:		15
IND ENG 115	Industrial and Commercial Data Systems [3]	
IND ENG 130	Methods of Manufacturing Improvement [3]	
IND ENG 142	Introduction to Machine Learning and Data Analytics [3]	
IND ENG 150	Production Systems Analysis [3] ²	
IND ENG 151	Service Operations Design and Analysis [3] ²	

IND ENG 153	Logistics Network Design and Supply Chain Management [3] ²	
IND ENG 164	Introduction to Optimization Modeling [3]	
IND ENG 166	Decision Analytics [3]	
IND ENG 170	Industrial Design and Human Factors [3]	

Industrial Engineering & Operations Research Ethics Requirement

DATA C104/ HISTORY C184D	Human Contexts and Ethics of Data - DATA/ History/STS ⁵	4
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Business Administration Upper Division

UGBA 100	Business Communication	2
UGBA 101A	Microeconomic Analysis for Business Decisions	3
UGBA 101B	Macroeconomic Analysis for Business Decisions	3
UGBA 102A	Financial Accounting	3
UGBA 102B	Managerial Accounting	3
UGBA 103	Introduction to Finance	4
UGBA 104	Introduction to Business Analytics	3
UGBA 106	Marketing	3
UGBA 107	The Social, Political, and Ethical Environment of Business	3

MET Special Topics

Two courses required. ³		2-4
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Upper Division Business Administration Elective Courses

Select 4-6 units of upper division Business Administration (UGBA) elective courses in order to complete a minimum of 38 units of upper division business. 4-6

UGBA 117	Special Topics in Economic Analysis and Policy [1-4]	
UGBA 118	International Trade [3]	
UGBA 120AA	Intermediate Financial Accounting 1 [4]	
UGBA 120AB	Intermediate Financial Accounting 2 [4]	
UGBA 120B	Advanced Financial Accounting [4]	
UGBA 121	Federal Income Tax Accounting [4]	
UGBA 122	Financial Information Analysis [4]	
UGBA 123	Operating and Financial Reporting Issues in the Financial Services Industry [3]	
UGBA 125	Ethics in Accounting [3]	
UGBA 126	Auditing [4]	
UGBA 127	Special Topics in Accounting [1-4]	
UGBA 128	Strategic Cost Management [3]	
UGBA 131	Corporate Finance and Financial Statement Analysis [3]	
UGBA 132	Financial Institutions and Markets [3]	
UGBA 133	Investments [3]	
UGBA 136F	Behavioral Finance [3]	
UGBA 137	Special Topics in Finance [1-4]	
UGBA 141	Production and Operations Management [3] ²	
UGBA 143	Game Theory and Business Decisions [3]	
UGBA 147	Special Topics in Operations and Information Technology Management [1-4]	
UGBA 151	Management of Human Resources [3]	
UGBA 152	Negotiation and Conflict Resolution [3]	
UGBA 154	Power and Politics in Organizations [3]	
UGBA 155	Leadership [3]	

UGBA 157	Special Topics in the Management of Organizations [1-4]
UGBA 160	Customer Insights [3]
UGBA 161	Market Research: Tools and Techniques for Data Collection and Analysis [3]
UGBA 162	Brand Management and Strategy [3]
UGBA 162A	Product Branding and Branded Entertainment [2]
UGBA 165	Advertising Strategy [3]
UGBA 167	Special Topics in Marketing [1-4]
UGBA 169	Pricing [3]
UGBA C172	History of American Business [3]
UGBA 173	Competitive Strategy [3]
UGBA 174	Leading Strategy Implementation [3]
UGBA 175	Legal Aspects of Management [3]
UGBA 176	Innovations in Communications and Public Relations [2]
UGBA 177	Special Topics in Business and Public Policy [1-4]
UGBA 178	Introduction to International Business [3]
UGBA 179	International Consulting for Small and Medium-Sized Enterprises [3]
UGBA 180	Introduction to Real Estate and Urban Land Economics [3]
UGBA 183	Introduction to Real Estate Finance [3]
UGBA 184	Urban and Real Estate Economics [3]
UGBA 187	Special Topics in Real Estate Economics and Finance [1-4]
UGBA 190S	Strategy for the Information Technology Firm [3]
UGBA 190T	Special Topics in Innovation and Design [1-4]
UGBA 191C	Communication for Leaders [2]
UGBA 191I	Improvisational Leadership [3]
UGBA 191P	Leadership and Personal Development [3]
UGBA 192A	Leading Nonprofit and Social Enterprises [3]
UGBA 192B	Strategic Philanthropy [2]
UGBA 192L	Applied Impact Evaluation [2]
UGBA 192N	Topics in Social Sector Leadership [1-5]
UGBA 192P	Sustainable Business Consulting Projects [3]
UGBA 192T	Topics in Responsible Business [1-4]
UGBA 193B	Energy & Civilization [4]
UGBA 193C	Practical Training [0.0]
UGBA 193I	Business Abroad [4-6]
UGBA 194	Undergraduate Colloquium on Business Topics [1]
UGBA 195A	Entrepreneurship [3]
UGBA 195P	Entrepreneurship: How to Successfully start a New Business [3]
UGBA 195S	Entrepreneurship To Address Global Poverty [3]
UGBA 195T	Topics in Entrepreneurship [1-3]
UGBA 196	Special Topics in Business Administration [1-4]
UGBA 198	Directed Study [1-4]
UGBA 199	Supervised Independent Study and Research [1-4]
Total Units	81

- ¹ STAT 134, STAT C140/DATA C140 or IND ENG 172 will be accepted for the Business Administration statistics requirement for students in the M.E.T. Program. IND ENG 172 is an alternative course for STAT 134 or STAT C140/DATA C140. In semesters when IND ENG 172 is offered, we recommend students take IND ENG 172. Students will receive credit for only one of these courses. The statistics requirement must be completed by spring semester of the sophomore (2nd) year.
- ² Students who take IND ENG 151 and IND ENG 150, or IND ENG 151 and IND ENG 153, will not receive credit for UGBA 141.
- ³ M.E.T. Special Topics courses are required and will count as upper division business units.
- ⁴ IND ENG 171 will be used to fulfill the UGBA 105 requirement for the Business major and will count as 3 units of upper division UGBA coursework.
- ⁵ DATA C104/HISTORY C184D should be taken to fulfill the IEOR Ethics Requirement and the M.E.T. Historical Studies breadth requirement. Additionally approved courses that fulfill the IEOR Ethics Requirement only are: ENGIN 125, ENGIN 157AC, BIO ENG 100, ENE,RES C100, PUB POL W184, or IAS 157AC. UGBA courses will not fulfill the IEOR Ethics Requirement.

University of California Requirements

Entry Level Writing (<http://guide.berkeley.edu/undergraduate/colleges-schools/haas-business/entry-level-writing-requirement/>)

All students who enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing Requirement. Fulfillment of this requirement is also a prerequisite to enrollment in all reading and composition courses at UC Berkeley.

American History and American Institutions (<http://guide.berkeley.edu/undergraduate/colleges-schools/haas-business/american-history-institutions-requirement/>)

The American History and Institutions requirements are based on the principle that a US resident who graduates from an American university should have an understanding of the history and governmental institutions of the United States.

Campus Requirement

American Cultures (<http://guide.berkeley.edu/undergraduate/colleges-schools/haas-business/american-cultures-requirement/>)

American Cultures (AC) is the one requirement that all undergraduate students at UC Berkeley need to take and pass in order to graduate. The requirement offers an exciting intellectual environment centered on the study of race, ethnicity, and culture of the United States. AC courses offer students opportunities to be part of research-led, highly accomplished teaching environments, grappling with the complexity of American culture.

M.E.T. Program Requirements

Reading and Composition

Two Reading and Composition (R&C) courses must be taken for a letter grade (C- or better required), and must be completed by no later than the end of the sophomore year (4th semester of enrollment). The first half of R&C, the "A" course, must be completed by the end of the freshman year; the second half of R&C, the "B" course, by no later than the end

of the sophomore year or a student's registration will be blocked. View a detailed list of courses (<http://guide.berkeley.edu/undergraduate/colleges-schools/engineering/reading-composition-requirement/>) that fulfill Reading and Composition requirements.

Breadth Requirement

The undergraduate breadth requirement provides Berkeley students with a rich and varied educational experience outside of their major program. As the foundation of a liberal arts education, breadth courses give students a view into the intellectual life of the University while introducing them to a multitude of perspectives and approaches to research and scholarship. Engaging students in new disciplines and with peers from other majors, the breadth experience strengthens interdisciplinary connections and context that prepare Berkeley graduates to understand and solve the complex issues of their day.

Students in the M.E.T. Program must successfully complete six breadth courses, one in each of the following categories:

- Arts and Literature
- Historical Studies
- International Studies
- Philosophy and Values (will be satisfied with UGBA 107)
- Physical Science (will be satisfied with Physics 7B)
- Social and Behavioral Sciences (will be satisfied with Econ 1)

- With the exception of UGBA 107, UGBA courses cannot be used to fulfill breadth requirements.
- With the exception of Econ 1 or Econ 2, microeconomics and macroeconomics at any level (Econ 3, Econ 100A/B, Econ 101A/B, IAS 106/107) cannot be used to fulfill breadth requirements.
- No more than two courses from any one department may be used to satisfy the breadth requirement (L&S Discovery courses (<http://lsdiscovery.berkeley.edu>) are exempt).
- Advanced Placement, International Baccalaureate and A-Level exams cannot be used to fulfill the breadth requirement.
- Courses numbered 97, 98, 99, or above 196 may not be used to complete any breadth requirement.
- Breadth courses must be a minimum of 3 semester units.
- Reading & Composition courses cannot be used to fulfill breadth requirements.

Class Schedule Requirements

- Minimum units per semester: 13
- Maximum units per semester: 20.5
- Students in the M.E.T. Program must enroll each semester in no fewer than two letter graded technical courses (of at least 3 units each, with the exception of Engineering 25, 26 and 27). Every semester they are expected to make satisfactory progress in their declared major; satisfactory progress in the student's declared major is determined by their ESS adviser.

Minimum Academic (Grade) Requirements

- A minimum overall and semester grade point average of 2.000 (C average) is required. Students will be subject to dismissal from the

University if during any fall or spring semester their overall U.C. GPA falls below a 2.000, or their semester GPA is less than 2.000.

- Students must achieve a minimum GPA of 2.000 (C average) in upper division technical courses each semester. Students will be subject to dismissal from the University if their upper division technical GPA falls below 2.000.
- A minimum overall GPA of 2.000, and a minimum 2.000 GPA in upper division technical course work required of the major are required to graduate.

Unit Requirements

- A minimum of 120 units are required to graduate.
- A maximum of 16 units of Special Studies coursework (courses numbered 97, 98, 99, 197, 198, or 199) will count towards the 120 units; a maximum of four are allowed in a given semester.
- A maximum of four units of Physical Education from any school attended will count towards the 120 units.
- Passed grades may account for no more than one third of the total units completed at UC Berkeley, Fall Program for Freshmen (FPF), UC Education Abroad Program (UCEAP), or UC Berkeley Washington Program (UCDC) toward the 120 overall minimum unit requirement. Transfer credit is not factored into the limit. This includes transfer units from outside of the UC system, other UC campuses, credit-bearing exams, as well as UC Berkeley Extension XB units.

University of California Requirements

Entry Level Writing (<https://www.ucop.edu/elwr/>)

All students who will enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing Requirement. Satisfaction of this requirement is also a prerequisite to enrollment in all Reading and Composition courses at UC Berkeley.

American History and American Institutions (<http://guide.berkeley.edu/undergraduate/education/#universityrequirementstext>)

The American History and Institutions requirements are based on the principle that a U.S. resident who has graduated from an American university should have an understanding of the history and governmental institutions of the United States.

Campus Requirement

American Cultures (<http://guide.berkeley.edu/undergraduate/education/#campusrequirementstext>)

The American Cultures requirement is a Berkeley campus requirement, one that all undergraduate students at Berkeley need to pass in order to graduate. You satisfy the requirement by passing, with a grade not lower than C- or P, an American Cultures course. You may take an American Cultures course any time during your undergraduate career at Berkeley. The requirement was instituted in 1991 to introduce students to the diverse cultures of the United States through a comparative framework. Courses are offered in more than fifty departments in many different disciplines at both the lower and upper division level.

The American Cultures requirement and courses constitute an approach that responds directly to the problem encountered in numerous

disciplines of how better to present the diversity of American experience to the diversity of American students whom we now educate.

Faculty members from many departments teach American Cultures courses, but all courses have a common framework. The courses focus on themes or issues in United States history, society, or culture; address theoretical or analytical issues relevant to understanding race, culture, and ethnicity in American society; take substantial account of groups drawn from at least three of the following: African Americans, indigenous peoples of the United States, Asian Americans, Chicano/Latino Americans, and European Americans; and are integrative and comparative in that students study each group in the larger context of American society, history, or culture.

This is not an ethnic studies requirement, nor a Third World cultures requirement, nor an adjusted Western civilization requirement. These courses focus upon how the diversity of America's constituent cultural traditions have shaped and continue to shape American identity and experience.

Visit the Class Schedule (<http://classes.berkeley.edu/>) or the American Cultures website (<http://americancultures.berkeley.edu/>) for the specific American Cultures courses offered each semester. For a complete list of approved American Cultures courses at UC Berkeley and California Community Colleges, please see the American Cultures Subcommittee's website (<https://academic-senate.berkeley.edu/committees/amcult/>). See your academic adviser if you have questions about your responsibility to satisfy the American Cultures breadth requirement.

		First Year	
	Fall Units	Spring Units	
CHEM 1A & 1AL ²		5 MATH 1B ³	4
DES INV 15 (Engineering Breadth) ³		3 ENGIN 7	4
UGBA 10		3 ECON 1 (Breadth: Social & Behavioral) ^{4,5}	4
MATH 1A ¹		4 Breadth: Arts & Literature/ American Cultures ⁴	4
M.E.T. Special Topics ⁷		2 Reading & Composition Part B Course ⁶	4
Reading & Composition Part A Course ⁶		4	
		21	20
		Second Year	
	Fall Units	Spring Units	
IND ENG 172, STAT 134, or STAT C140 ¹⁰		4 COMPSCI C8 or 61A ¹¹	4
MATH 53		4 IND ENG 120 or ENGIN 120	3
PHYSICS 7A ⁹		4 MATH 54	4
Engineering Breadth ³		3 PHYSICS 7B (Breadth: Physical Science)	4
Breadth: International Studies ⁴		4 Engineering Breadth ³	4
		19	19
		Third Year	
	Fall Units	Spring Units	
IND ENG 160		3 IND ENG 165	4

IND ENG 162	3 IND ENG 173	3	
IND ENG Elective ¹²	3 IND ENG Elective ¹²	3	
IND ENG 171 ¹⁴	3 UGBA 101B	3	
UGBA 100	2 UGBA 102A	3	
UGBA 101A	3 UGBA 107 (Breadth: Philosophy and Values) ⁴	3	
UGBA 106	3		
		20	
		19	
		Fourth Year	
	Fall Units	Spring Units	
IND ENG Elective ¹²		3 IND ENG 180	4
IND ENG Elective ¹²		3 IND ENG 174	3
IND ENG Elective ¹²		3 UGBA 102B	3
UGBA 103		4 UGBA Elective ¹³	2
UGBA 104		3 UGBA Elective ¹³	2
M.E.T. Special Topics ⁷		2 DATA C104 or HISTORY C184D (IEOR Ethics & Historical Studies breadth) ¹⁵	4
		18	18

Total Units: 154

- MATH 1A may be fulfilled with a score of 3, 4 or 5 on the AP Calculus AB or BC exam, a score of 5, 6 or 7 on the IB Higher Level Math exam, or a grade of A, B or C on the A-Level Math H1, H2, H3, Pure Math or Further Math exam.
- CHEM 1A/1AL may be fulfilled with a score of 3, 4 or 5 on the AP Chemistry exam, a score of 5, 6 or 7 on the IB Higher Level Chemistry exam, or a grade of A, B or C on the A-Level Chemistry exam. CHEM 4A, BIOLOGY 1A& BIOLOGY 1AL, or BIOLOGY 1B may also be used to fulfill this requirement. CHEM 4A is intended for students majoring in chemistry or a closely-related field.
- Engineering Breadth: 9 units must be completed from the following list: BIO ENG 10, BIO ENG 102, CIV ENG 11, CIV ENG C30, CIV ENG 60, CIV ENG 70, CIV ENG 126, CIV ENG 132, CIV ENG 155, DES INV 15, EECS 16A, EECS 16B, ENGIN 11, ENGIN 29 (or ENGIN 25 & ENGIN 27), ENGIN 26, ENGIN 40, MAT SCI 45, MAT SCI 45L, MAT SCI 111, MEC ENG 40, MEC ENG C85, MEC ENG 126, MEC ENG 132.
- ECON 1 (or ECON 2) and UGBA 107 will be accepted for the Social and Behavioral Sciences and Philosophy and Values breadth requirements, respectively, as exceptions for students in the M.E.T. Program. The Biological Science breadth requirement is waived for students in the M.E.T. Program. Some American Cultures courses will also fulfill the Arts & Literature and/or Historical Studies breadth requirement; use Requirements filters to search the Class Schedule (<http://classes.berkeley.edu/>) for courses that apply. See College Requirements for further restrictions on breadth courses.
- Econ 1 may be fulfilled with scores of 4 or 5 on both the AP Microeconomics exam and AP Macroeconomics exam. However, the Social and Behavioral Sciences Breadth requirement cannot be fulfilled with AP exam scores.

- 6 Reading & Composition part A may be fulfilled with a score of 4 or 5 on the AP English Language and Composition exam or the AP English Literature and Composition exam, or a score of 5, 6 or 7 on the IB Higher Level English Literature exam or the IB Higher Level English Language and Literature exam. A 5 on the AP English Literature and Composition exam, or a score of 5 or higher on the IB Higher Level English Language and Literature exam will fulfill Reading & Composition part A and part B.
- 7 M.E.T. Special Topics courses are required and will count as upper division business elective units.
- 8 MATH 1B may be fulfilled with a score of 4 or 5 on the AP Calculus BC exam, a score of 5, 6 or 7 on the IB Higher Level Math exam, or a grade of A, B or C on the A-Level Math H2, H3, Pure Math or Further Math exam.
- 9 PHYSICS 7A may be fulfilled with a score of 5 on the AP Physics C Mechanics exam.
- 10 STAT 134, STAT C140/DATA C140 or IND ENG 172 will be accepted for the Business Administration statistics requirement for students in the M.E.T. Program. The statistics requirement for Business Administration must be completed spring semester of sophomore year. IND ENG 172 is an alternative course for STAT 134 or STAT C140/DATA C140. In semesters when IND ENG 172 is offered, we recommend students take IND ENG 172. Students will receive credit for only one of these courses.
- 11 Students must acquire fluent programming skills as demonstrated by completion of coursework in a high-level language such as Python, C, C++, or Java. This requirement may be completed by taking COMPSCI 61A or COMPSCI C8 or equivalent. The COMPSCI 9xx series self-paced courses are intended for those already skilled as programmers in a high-level language to learn a second language and thus are not appropriate for meeting this requirement.
- 12 Students must take a minimum of five courses from the following: IND ENG 115, IND ENG 130, IND ENG 142, IND ENG 150, IND ENG 151, IND ENG 153, IND ENG 164, IND ENG 166, IND ENG 170.
- 13 Students must complete a minimum of 38 units of upper division business coursework. See UGBA Elective course list under "Major Requirements" tab. Students who take IND ENG 151 and IND ENG 150, or IND ENG 151 and IND ENG 153, will not receive credit for UGBA 141.
- 14 IND ENG 171 will be used to fulfill the UGBA 105 requirement for the Business major and will count as 3 units of upper division UGBA coursework.
- 15 DATA C104/HISTORY C184D should be taken to fulfill the IEOR Ethics Requirement and the M.E.T. Historical Studies breadth requirement. Additional courses that will fulfill the IEOR Ethics requirement only are: ENGIN 125, ENGIN 157AC/IAS 157AC, BIO ENG 100, ENE, RES C100, PUB-POL C184. UGBA courses will not fulfill the IEOR Ethics Requirement.

Industrial Engineering and Operations Research

Learning Goals

1. Quantitative modeling and analysis of a broad array of systems-level decision problems concerned with economic efficiency, productivity, and quality.
2. Development and creative use of analytical and computational methods for solving these problems.

3. Collection of and analysis of data, and the use of database and decision-support tools.
4. Comprehension and analysis of uncertainty.
5. In addition, the department expects their graduates to obtain the broader skills, background, and knowledge necessary to be an effective professional in a rapidly changing global economy.

curricular Outcomes

1. Identify, analyze, and evaluate alternative or candidate solutions for decision problems.
2. Identify appropriate models and methods for solving decision problems.
3. Formulate mathematical optimization models for real-life decision problems.
4. Understand methods for solving deterministic optimization problems and utilize optimization software for solving such problems.
5. Formulate analytical models and develop computer simulations to predict and optimize systems under uncertainty.
6. Develop models and utilize analytical tools and software to evaluate decisions under uncertainty.
7. Understand performance measurement.
8. Understand important concepts in manufacturing and service operations.
9. Design and apply analytical models for manufacturing and service operations.
10. Critique and reorganize business and industrial process flows and information flows.
11. Structure data to support decisions related to the aforementioned topics.
12. Understand organizational design and management issues.

Business Administration

MISSION

Guided by the missions of the undergraduate program, and the University's mission of teaching, research, and service, the mission of the Haas School of Business is to develop leaders who redefine how we do business.

The Haas School of Business Undergraduate Program has developed student learning goals for the Business major that provide faculty and students with a shared understanding of the purpose of the major as well as what graduating seniors are expected to know or to be able to do at the end of their course of study as it relates to the school's mission.

The learning goals are assessed to determine whether students are achieving the outcomes. The assessment results are used to inform curricular design and other program offerings. All steps require input and participation from the business school community, particularly the faculty. The resulting learning goals, which have their origin in the core curriculum, were shaped over several months by faculty and administration and are listed below.

LEARNING GOALS

1. Students will be skilled in critical thinking and decision making, as supported by the appropriate use of analytical and quantitative techniques.
2. Students will apply functional area concepts and theories appropriately.

3. Students will be effective communicators who can prepare and deliver oral and written presentations using appropriate technologies.
4. Students will be sensitive to the ethical requirements of business activities.
5. Students will tackle strategic and organizational challenges with innovative solutions.

For a visual representation of the relationship between the core curriculum and the expected outcomes, please see the Haas School of Business website (<http://www.haas.berkeley.edu/Undergrad/learninggoals.html>).

Major Maps help undergraduate students discover academic, co-curricular, and discovery opportunities at UC Berkeley based on intended major or field of interest. Developed by the Division of Undergraduate Education in collaboration with academic departments, these experience maps will help you:

- **Explore** your major and gain a better understanding of your field of study
- **Connect** with people and programs that inspire and sustain your creativity, drive, curiosity and success
- **Discover** opportunities for independent inquiry, enterprise, and creative expression
- **Engage** locally and globally to broaden your perspectives and change the world
- **Reflect** on your academic career and prepare for life after Berkeley

Use the major map below as a guide to planning your undergraduate journey and designing your own unique Berkeley experience.

View the Management, Entrepreneurship, & Technology (M.E.T.) Major Map PDF. (https://ue.berkeley.edu/sites/default/files/management_entrepreneurship_and_technology.pdf)

- Industrial Engineering and Operations Research (p. 7)
- Business Administration (p. 23)

Industrial Engineering and Operations Research

Expand all course descriptions [+]Collapse all course descriptions [-]

IND ENG 24 Freshman Seminars 1 Unit

Terms offered: Fall 2017, Fall 2016, Fall 2015

The Berkeley Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small-seminar setting. Berkeley Seminars are offered in all campus departments, and topics vary from department to department and semester to semester.

Freshman Seminars: Read More [+]

Objectives & Outcomes

Course Objectives: Provide an introduction to the field of Industrial Engineering and Operations Research through a series of lectures.

Student Learning Outcomes: Learn more about Industrial Engineering and Operations Research.

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman Seminars: Read Less [-]

IND ENG 66 A Bivariate Introduction to IE and OR 3 Units

Terms offered: Fall 2016

This Freshman-level Introductory course will provide an intuitive overview of the fundamental problems addressed and methods in the fields of Industrial Engineering and Operations Research including Constrained Optimization, Human Factors, Data Analytics, Queues and Chains, and Linear Programming. The course will focus on two-dimensional, i.e., bivariate, examples where the problems and methods are amenable to visualization and geometric intuition. The course will discuss applications such as dieting, scheduling, and transportation. This course will not require pre-requisites and will present the core concepts in a self-contained manner that is accessible to Freshmen to provide the foundation for future coursework.

A Bivariate Introduction to IE and OR: [Read More](#) [+]

Objectives & Outcomes

Course Objectives:

Provide a broad survey of the important topics in IE and OR, and develop intuition about problems, algorithms, and abstractions using bivariate examples (2D).

- Describe different mathematical abstractions used in IEOR (e.g., graphs, queues, Markov chains), and how to use these abstractions to model real-world problems.

- Introduce students to the data analysis process including: developing a hypothesis, acquiring data, processing the data, testing the hypothesis, and presenting results.

- Provide students with concrete examples of how the mathematical tools from the class apply to real problems such as dieting, scheduling, and transportation.

Rules & Requirements

Credit Restrictions: Course restricted to Freshman students.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Goldberg

A Bivariate Introduction to IE and OR: [Read Less](#) [-]

IND ENG 95 A. Richard Newton Lecture Series 1 Unit

Terms offered: Spring 2022, Fall 2021, Spring 2021

This lecture series serves as an entry point for undergraduate and graduate curriculum sequences in entrepreneurship and innovation. The series, established in 2005, is named in honor of A. Richard Newton, a visionary technology industry leader and late dean of the University of California Berkeley College of Engineering. The course features a selection of high-level industry speakers who share their insights on industry developments, leadership, and innovation based on their careers.

A. Richard Newton Lecture Series: [Read More](#) [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of colloquium per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Alternative to final exam.

Instructor: Sidhu

A. Richard Newton Lecture Series: [Read Less](#) [-]

IND ENG 98 Supervised Group Study and Research 1 - 3 Units

Terms offered: Spring 2019, Fall 2015, Spring 2015

Supervised group study and research by lower division students.

Supervised Group Study and Research: [Read More](#) [+]

Rules & Requirements

Prerequisites: Consent of instructor

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-3 hours of directed group study per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Supervised Group Study and Research: [Read Less](#) [-]

IND ENG 99 Supervised Independent Study and Research 1 - 4 Units

Terms offered: Prior to 2007

Supervised independent study for lower division students.

Supervised Independent Study and Research: [Read More](#) [+]

Rules & Requirements

Prerequisites: Freshman or sophomore standing and consent of instructor

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Summer:

8 weeks - 1.5-7.5 hours of independent study per week

10 weeks - 1.5-6 hours of independent study per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Supervised Independent Study and Research: [Read Less](#) [-]

IND ENG 115 Industrial and Commercial Data Systems 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Design and implementation of databases, with an emphasis on industrial and commercial applications. Relational algebra, SQL, normalization.

Students work in teams with local companies on a database design project. WWW design and queries.

Industrial and Commercial Data Systems: [Read More](#) [+]

Rules & Requirements

Prerequisites: Upper division standing

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Goldberg

Industrial and Commercial Data Systems: [Read Less](#) [-]

IND ENG 120 Principles of Engineering Economics 3 Units

Terms offered: Prior to 2007

Economic analysis for engineering decision making: Capital flows, effect of time and interest rate. Different methods of evaluation of alternatives.

Minimum-cost life and replacement analysis. Depreciation and taxes.

Uncertainty; preference under risk; decision analysis. Capital sources and their effects. Economic studies. Formerly Engineering 120.

Principles of Engineering Economics: [Read More](#) [+]

Rules & Requirements

Credit Restrictions: Students will receive 2 units for 120 after taking Civil Engineering 167. Students will not receive credit after taking Engineering 120.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Summer: 8 weeks - 4 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Adler

Principles of Engineering Economics: [Read Less](#) [-]

IND ENG 130 Methods of Manufacturing Improvement 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Analytical techniques for the improvement of manufacturing performance along the dimensions of productivity, quality, customer service, and throughput. Techniques for yield analysis, process control, inspection sampling, equipment efficiency analysis, cycle time reduction, and on-time delivery improvement. Applications on semiconductor manufacturing or other industrial settings.

Methods of Manufacturing Improvement: [Read More](#) [+]

Rules & Requirements

Prerequisites: IND ENG 172, MATH 54, or STAT 134 (STAT 134 may be taken concurrently)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Leachman

Methods of Manufacturing Improvement: [Read Less](#) [-]

IND ENG 135 Applied Data Science with Venture Applications 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

This highly-applied course surveys a variety of key concepts and tools that are useful for designing and building applications that process data signals of information. The course introduces modern open source, computer programming tools, libraries, and code samples that can be used to implement data applications. The mathematical concepts highlighted in this course include filtering, prediction, classification, decision-making, Markov chains, LTI systems, spectral analysis, and frameworks for learning from data. Each math concept is linked to implementation using Python using libraries for math array functions (NumPy), manipulation of tables (Pandas), long term storage (SQL, JSON, CSV files), natural language (NLTK), and ML frameworks.

Applied Data Science with Venture Applications: Read More [+]

Objectives & Outcomes

Student Learning Outcomes: Students will be able to design and build data sample application systems that can interpret and use data for a wide range of real life applications across many disciplines and industries; implement these concepts within applications with modern open source CS tools. understand relevant mathematical concepts that are used in systems that process data;

Rules & Requirements

Prerequisites: Prerequisites include the ability to write code in Python, and a probability or statistics course. This course is ideal for students who have taken COMPSCI C8 / DATA C8 / INFO C8 / STAT C8

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Sidhu

Applied Data Science with Venture Applications: Read Less [-]

IND ENG 142 Introduction to Machine Learning and Data Analytics 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

This course introduces students to key techniques in machine learning and data analytics through a diverse set of examples using real datasets from domains such as e-commerce, healthcare, social media, sports, the Internet, and more. Through these examples, exercises in R, and a comprehensive team project, students will gain experience understanding and applying techniques such as linear regression, logistic regression, classification and regression trees, random forests, boosting, text mining, data cleaning and manipulation, data visualization, network analysis, time series modeling, clustering, principal component analysis, regularization, and large-scale learning.

Introduction to Machine Learning and Data Analytics: Read More [+]

Objectives & Outcomes

Course Objectives: 1.

To expose students to a variety of statistical learning methods, all of which are relevant in useful in wide range of disciplines and applications.

2. To carefully present the statistical and computational assumptions, trade-offs, and intuition underlying each method discussed so that students will be trained to determine which techniques are most appropriate for a given problem.

3. Through a series of real-world examples, students will learn to identify opportunities to leverage the capabilities of data analytics and will see how data analytics can provide a competitive edge for companies.

4. To train students in how to actually apply each method that is discussed in class, through a series of labs and programming exercises.

5. For students to gain some project-based practical data science experience, which involves identifying a relevant problem to be solved or question to be answered, gathering and cleaning data, and applying analytical techniques.

6. To introduce students to advanced topics that are important to the successful application of machine learning methods in practice, include how methods for prediction are integrated with optimization models and modern optimization techniques for large-scale learning problems.

Rules & Requirements

Prerequisites: IEOR 165 or equivalent course in statistics. Prior exposure to optimization is helpful but not strictly necessary. Some programming experience/literacy is expected

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Grigas, Paul

Introduction to Machine Learning and Data Analytics: Read Less [-]

IND ENG 145 Fundamentals of Revenue Management 3 Units

Terms offered: Not yet offered

This course will introduce students to (i) Fundamental models that capture the key dynamics of these fundamental problems and (ii) Algorithms that turn these models into actionable decisions. The broad usefulness of concepts covered will be demonstrated through several applications such as in airline reservation systems, retail, advertising, e-commerce as well as applications beyond RM such as in hospital-resident matching and school-student assignments.

Fundamentals of Revenue Management: Read More [+]

Rules & Requirements

Prerequisites: IndEng 162, IndEng 169 and either IndEng 173 Or IndEng 172 (or equivalent introductory courses in mathematical programming and probability). Familiarity with algorithm design and mathematical maturity recommended

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Udwani

Fundamentals of Revenue Management: Read Less [-]

IND ENG 150 Production Systems Analysis 3 Units

Terms offered: Fall 2020, Fall 2019, Fall 2018

Quantitative models for operational and tactical decision making in production systems, including production planning, inventory control, forecasting, and scheduling.

Production Systems Analysis: Read More [+]

Rules & Requirements

Prerequisites: IND ENG 160, IND ENG 173, IND ENG 162, IND ENG 165, and ENGIN 120

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Yano

Production Systems Analysis: Read Less [-]

IND ENG 151 Service Operations Design and Analysis 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

This course is concerned with improving processes and designing facilities for service businesses such as banks, health care organizations, telephone call centers, restaurants, and transportation providers. Major topics in the course include design of service processes, layout and location of service facilities, demand forecasting, demand management, employee scheduling, service quality management, and capacity planning.

Service Operations Design and Analysis: Read More [+]

Rules & Requirements

Prerequisites: IND ENG 162, IND ENG 173, and a course in statistics

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Service Operations Design and Analysis: Read Less [-]

IND ENG 153 Logistics Network Design and Supply Chain Management 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

We will focus primarily on both quantitative and qualitative issues which arise in the integrated design and management of the entire logistics network. Models and solution techniques for facility location and logistics network design will be considered. In addition, qualitative issues in distribution network structuring, centralized versus decentralized network control, variability in the supply chain, strategic partnerships, and product design for logistics will be considered through discussions and cases.

Logistics Network Design and Supply Chain Management: Read More [+]

Rules & Requirements

Prerequisites: IND ENG 160, IND ENG 162 or senior standing

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Kaminsky

Logistics Network Design and Supply Chain Management: Read Less [-]

IND ENG 160 Nonlinear and Discrete Optimization 3 Units

Terms offered: Spring 2022, Fall 2021, Fall 2020

This course introduces unconstrained and constrained optimization with continuous and discrete domains. Convex sets and convex functions; local optimality; KKT conditions; Lagrangian duality; steepest descent and Newton's method. Modeling with integer variables; branch-and-bound method; cutting planes. Models on production/inventory planning, logistics, portfolio optimization, factor modeling, classification with support vector machines.

Nonlinear and Discrete Optimization: Read More [+]

Rules & Requirements

Prerequisites: MATH 53 and MATH 54

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Atamturk

Nonlinear and Discrete Optimization: Read Less [-]

IND ENG 162 Linear Programming and Network Flows 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

This course addresses modeling and algorithms for optimization of linear constrained optimization problems. The simplex method; theorems of duality; complementary slackness. Applications in production planning and resource allocation. Graph and network problems as linear programs with integer solutions. Algorithms for selected network flow problems. Transportation and logistics problems. Dynamic programming and its role in applications to shortest paths, project management and equipment replacement.

Linear Programming and Network Flows: Read More [+]

Rules & Requirements

Prerequisites: MATH 53 and MATH 54

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Hochbaum

Linear Programming and Network Flows: Read Less [-]

IND ENG 164 Introduction to Optimization Modeling 3 Units

Terms offered: Prior to 2007

Designed for students from any science/engineering major, this upper-division course will introduce students to optimization models, and train them to use software tools to model and solve optimization problems. The main goal is to develop proficiency in common optimization modeling languages, and learn how to integrate them with underlying optimization solvers. Students will work primarily on modeling exercises, which will develop confidence in modeling and solve optimization methods using software packages, and will require some programming. Review of linear and nonlinear optimization models, including optimization problems with discrete decision variables. Applications to practical problems from engineering and data science.

Introduction to Optimization Modeling: Read More [-]

Objectives & Outcomes

Course Objectives: •

To introduce students to the core concepts of optimization

•

To train them in the art and science of using software tools to model and solve optimization problems.

Rules & Requirements

Prerequisites: No prerequisites except some Python programming skills, which can be met by COMPSCI C8 (or any other Python-based course)

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Introduction to Optimization Modeling: Read Less [-]

IND ENG 165 Engineering Statistics, Quality Control, and Forecasting 4 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

This course will introduce students to basic statistical techniques such as parameter estimation, hypothesis testing, regression analysis, analysis of variance. Applications in forecasting and quality control.

Engineering Statistics, Quality Control, and Forecasting: Read More [+]

Rules & Requirements

Prerequisites: IND ENG 172, or STAT 134, or an equivalent course in probability theory

Credit Restrictions: Students will receive no credit for IND ENG 165 after completing STAT 135.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Engineering Statistics, Quality Control, and Forecasting: Read Less [-]

IND ENG 166 Decision Analytics 3 Units

Terms offered: Spring 2022, Spring 2021, Fall 2019

Introductory course on the theory and applications of decision analysis. Elective course that provides a systematic evaluation of decision-making problems under uncertainty. Emphasis on the formulation, analysis, and use of decision-making techniques in engineering, operations research and systems analysis. Includes formulation of risk problems and probabilistic risk assessments. Graphical methods and computer software using event trees, decision trees, and influence diagrams that focus on model design.

Decision Analytics: Read More [+]

Rules & Requirements

Prerequisites: IND ENG 172 or STAT 134

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Oren, Righter

Decision Analytics: Read Less [-]

IND ENG 169 Integer Optimization 3 Units

Terms offered: Spring 2022, Spring 2021, Fall 2020

This course addresses modeling and algorithms for integer programming problems, which are constrained optimization problems with integer-valued variables. Flexibility of integer optimization formulations; if-then constraints, fixed-costs, etc. Branch and Bound; Cutting plane methods; polyhedral theory. Applications in production planning, resource allocation, power generation, network design. Alternate formulations for integer optimization: strength of Linear Programming relaxations. Algorithms for integer optimization problems. Specialized strategies by integer programming solvers.

Integer Optimization: Read More [+]

Objectives & Outcomes

Course Objectives: •

Enable the students to recognize when problems can be modeled as integer optimization problems.

- Familiarize students in leading methodologies for solving integer optimization problems, and techniques in these methodologies.

- To acquire skills in the best modeling approach that is suitable to the practical problem at hand.

- To train students in modeling of integer optimization problems;

- To train the students in the selection of appropriate techniques to be used for integer optimization problems.

Rules & Requirements

Prerequisites: MATH 53, MATH 54, and background in Python and programming

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Rajan

Integer Optimization: Read Less [-]

IND ENG 170 Industrial Design and Human Factors 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

This course surveys topics related to the design of products and interfaces ranging from alarm clocks, cell phones, and dashboards to logos, presentations, and web sites. Design of such systems requires familiarity with human factors and ergonomics, including the physics and perception of color, sound, and touch, as well as familiarity with case studies and contemporary practices in interface design and usability testing. Students will solve a series of design problems individually and in teams.

Industrial Design and Human Factors: [Read More](#) [+]

Rules & Requirements

Prerequisites: Upper division standing

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Goldberg

Industrial Design and Human Factors: [Read Less](#) [-]

IND ENG 171 Technology Firm Leadership 3 Units

Terms offered: Spring 2022, Fall 2020, Spring 2020

This course explores key management and leadership concepts relevant to the high-technology world. Topics include the firm's key operations, strategic issues, and managerial leadership including personal leadership and talent management. This course prepares technical and business minded students for careers focused on professional and management track careers in high technology. Students undertake intensive study of actual business situations through rigorous case-study analysis.

Technology Firm Leadership: [Read More](#) [+]

Rules & Requirements

Prerequisites: Upper division standing

Credit Restrictions: Students will receive no credit for Ind Eng 171 after taking UGBA 105.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Technology Firm Leadership: [Read Less](#) [-]

IND ENG 172 Probability and Risk Analysis for Engineers 4 Units

Terms offered: Spring 2022, Fall 2021, Fall 2020

This is an introductory course in probability designed to develop a good understanding of uncertain phenomena and the mathematical tools used to model and analyze it. Applications will be given in such areas as reliability theory, risk theory, inventory theory, financial models, and computer science, among others. To complement the theory, the course also covers the basics of stochastic simulation. This course is a probability course and cannot be used to fulfill any engineering unit or elective requirements.

Probability and Risk Analysis for Engineers: [Read More](#) [+]

Objectives & Outcomes

Course Objectives: Students will learn how to model random phenomena and learn about a variety of areas where it is important to estimate the likelihood of uncertain events. Students will also learn how to use computer simulation to replicate and analyze these events.

Rules & Requirements

Prerequisites: Students should have a solid knowledge of calculus, including multiple variable integration, such as MATH 1A and MATH 1B or MATH 16A and MATH 16B, as well as programming experience in Matlab or Python

Credit Restrictions: Students will receive no credit for IND ENG 172 after completing STAT 134, or STAT 140. A deficient grade in IND ENG 172 may be removed by taking STAT 140.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Probability and Risk Analysis for Engineers: [Read Less](#) [-]

IND ENG 173 Introduction to Stochastic Processes 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

This is an introductory course in stochastic models. It builds upon a basic course in probability theory and extends the concept of a single random variable into collections of random variables known as stochastic processes. The course focuses on discrete-time Markov chains, Poisson process, continuous-time Markov chains, and renewal theory. It also discusses applications to queueing theory, risk analysis and reliability theory. Along with the theory, the course covers stochastic simulation techniques that will allow students to go beyond the models and applications discussed in the course.

Introduction to Stochastic Processes: [Read More](#) [+]

Objectives & Outcomes

Course Objectives: Students will learn how to model random phenomena that evolves over time, as well as the simulation techniques that enable the replication of such problems using a computer. By discussing various applications in science and engineering, students will be able to model many real world problems where uncertainty plays an important role.

Rules & Requirements

Prerequisites: Students should have taken a probability course, such as STAT 134 or IND ENG 172, and should have programming experience in Matlab or Python

Credit Restrictions: Students will receive no credit for Ind Eng 173 after taking Ind Eng 161.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Introduction to Stochastic Processes: [Read Less](#) [-]

IND ENG 174 Simulation for Enterprise-Scale Systems 3 Units

Terms offered: Fall 2021, Fall 2020, Spring 2020

Introductory course on design, programming, and statistical analysis of simulation methods and tools for enterprise-scale systems such as traffic and computer networks, health-care and financial systems, and factories. Topics include the types of problems that can be solved by such methods. Programming material includes the theory behind random variable generation for a variety of common variables. Advanced techniques such as variance reduction, simulation optimization, or meta-modeling are considered. Student teams implement an enterprise-scale simulation in a semester-length design project.

Simulation for Enterprise-Scale Systems: [Read More](#) [+]

Objectives & Outcomes

Course Objectives: •

Exposure students to state-of-art advanced simulation techniques. • Note: the course is a mixture of modeling art, analytical science, and computational technology.

- Have students communicate their ideas and solutions effectively in written reports.
- Insure students become familiar with the fundamental similarities and differences among simulation software packages.
- Introduce students to modern techniques for developing computer simulations of stochastic discrete-event models and experimenting with such models to better design and operate dynamic systems.
- Introduce the different technologies used to develop simulation models and simulator products in order to become critical consumers of simulation study results.
- Teach strengths and weaknesses of different approaches for a foundation for selecting methodologies.
- Teach students how to model random processes and experiment with simulated systems.

Rules & Requirements

Prerequisites: IND ENG 165; IND ENG 173; IND ENG 172 or STAT 134

Credit Restrictions: Students will receive no credit for IND ENG 174 after completing IND ENG 131. A deficient grade in IND ENG 174 may be removed by taking IND ENG 131.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Zheng

Simulation for Enterprise-Scale Systems: [Read Less](#) [-]

IND ENG 180 Senior Project 4 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

Application of systems analysis and industrial engineering to the analysis, planning, and/or design of industrial, service, and government systems.

Consideration of technical and economic aspects of equipment and process design. Students work in teams under faculty supervision. Topics vary yearly.

Senior Project: Read More [+]

Rules & Requirements

Prerequisites: 160, 162, 165, 173, Engineering 120, and three other Industrial Engineering and Operations Research electives

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 6 hours of fieldwork per week

Summer: 10 weeks - 3 hours of lecture and 9 hours of fieldwork per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Senior Project: Read Less [-]

IND ENG 185 Challenge Lab 4 Units

Terms offered: Spring 2022, Fall 2021, Summer 2021 8 Week Session

This course is meant for students in engineering and other disciplines who seek a challenging, interactive, team-based, and hands-on learning experience in entrepreneurship and technology. In this highly experiential course, students work in simulated start-up teams to create products or start-up ideas to address a broadly-defined need of an industry partner or social challenge.

Challenge Lab: Read More [+]

Objectives & Outcomes

Course Objectives: 1)

To catalyze learning through experiential entrepreneurship

2)

To help students understand the entrepreneurial context, and how it can create better outcomes.

3)

To help students identify the best role for themselves within an entrepreneurial organization.

Student Learning Outcomes: 1)

Gain experience with effectively refining ideas and pivoting based on feedback and external factors.

2)

Gain experience building effective teams to develop and execute an idea

3)

Become comfortable with failure and how to learn from failure.

4)

Become adept at succinctly communicating ideas in terms of value proposition and business viability.

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of seminar per week

Summer:

6 weeks - 10 hours of seminar per week

8 weeks - 7.5 hours of seminar per week

10 weeks - 6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Goldberg, Sidhu, Wroblewski, IEOR / CET Instructors

Challenge Lab: Read Less [-]

IND ENG 186 Product Management 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Too often we are enamored in our brilliant ideas, we skip the most important part: building products consumers will want and use. Precious time and effort is wasted on engineering perfect products only to launch to no users. This course teaches product management skills such as attributes of great product managers, reducing risk and cost while accelerating time to market, product life cycle, stakeholder management and effective development processes.

Product Management: Read More [+]

Objectives & Outcomes

Course Objectives: •

Students will experience a live development of a product within the context of a product development process.

- Students will learn common methods used in product management
- Students will understand the difference between engineering design and product development as a process commonly used in new venture environments.

Student Learning Outcomes: •

Students will actually develop a real world functioning product, to be described as Minimum Viable.

- Students will be able to manage a product development process that leads to a product that is technically feasible as well as desired by customers.
- Students will gain experience needed to work as product managers in real life environments.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Shen, Sidhu, IEOR / CET Instructors

Product Management: Read Less [-]

IND ENG 190A Advanced Topics in Industrial Engineering and Operations Research 1 - 4 Units

Terms offered: Spring 2018, Fall 2016, Spring 2016

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research: Read Less [-]

IND ENG 190B Advanced Topics in Industrial Engineering and Operations Research: Entrepreneurial Marketing and Finance 1 - 4 Units

Terms offered: Fall 2017, Spring 2014, Fall 2013

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research: Entrepreneurial Marketing and Finance: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research: Entrepreneurial Marketing and Finance: Read Less [-]

IND ENG 190C Advanced Topics in Industrial Engineering and Operations Research 1 - 4 Units

Terms offered: Spring 2020, Fall 2019, Spring 2019

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research:

Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research:
Read Less [-]

IND ENG 190D Advanced Topics in Industrial Engineering and Operations Research 1 - 4 Units

Terms offered: Spring 2017, Fall 2014, Spring 2014

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research:

Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research:
Read Less [-]

IND ENG 190E Advanced Topics in Industrial Engineering and Operations Research: Entrepreneurship & Innovation 1 - 4 Units

Terms offered: Spring 2022, Fall 2021, Summer 2021 Second 6 Week Session

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research:

Entrepreneurship & Innovation: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

6 weeks - 2.5-10 hours of seminar per week

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research:
Entrepreneurship & Innovation: Read Less [-]

IND ENG 190F Advanced Topics in Industrial Engineering and Operations Research 1 - 4 Units

Terms offered: Spring 2013, Spring 2012, Spring 2011

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research:

Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research:
Read Less [-]

IND ENG 190G Advanced Topics in Industrial Engineering and Operations Research 1 - 4 Units

Terms offered: Spring 2020, Fall 2019, Spring 2019

The 190 series cannot be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Advanced Topics in Industrial Engineering and Operations Research:
Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Summer:

8 weeks - 1.5-7.5 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Advanced Topics in Industrial Engineering and Operations Research:
Read Less [-]

IND ENG 190H Cases in Global Innovation 1 Unit

Terms offered: Fall 2021, Spring 2011

This course is designed primarily for upper-level undergraduate and graduate students interested in examining the major challenges and success factors entrepreneurs and innovators face in globalizing a company, product, or service. Over the duration of this course, students will examine case studies of early, mid-stage, and large-scale enterprises as they seek to start a new venture, introduce a new product or service, or capitalize on global economic trends to enhance their existing business. The course content exposes students interested in internationally oriented careers to the strategic thinking involved in international engagement and expansion. Cases will include both U.S. companies seeking to enter emerging markets and emerging market companies looking to expand within their own nations or into markets in developed nations. The course is focused around intensive study of actual business situations through rigorous case-study analysis.

Cases in Global Innovation: Read More [+]

Rules & Requirements

Prerequisites: Junior or Senior standing

Hours & Format

Fall and/or spring: 8 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Cases in Global Innovation: Read Less [-]

IND ENG 190I Cases in Global Innovation: China 1 Unit

Terms offered: Prior to 2007

This course is designed primarily for upper-level undergraduate and graduate students interested in examining the major challenges and success factors entrepreneurs and innovators face in globalizing a company product or service, with a focus on China. Over the duration of this course, students will examine case studies of foreign companies seeking to start a new venture, introduce a new product or service to the China market, or domestic Chinese companies seeking to adapt a U.S. or western business model to the China market. The course content exposes students interested in internationally oriented careers to the strategic thinking involved in international engagement and expansion and the particularities of the China market and their contrast with the U.S. market. The course is focused around intensive study of actual business situations through rigorous case-study analysis and the course size is limited to 30.

Cases in Global Innovation: China: [Read More](#) [+]

Rules & Requirements

Prerequisites: Junior or senior standing. Recommended, but not required to be taken after or along with Engineering 198

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Sidhu

Cases in Global Innovation: China: [Read Less](#) [-]

IND ENG 190K Cases in Global Innovation: South Asia 1 Unit

Terms offered: Prior to 2007

This course is designed primarily for upper-level undergraduate and graduate students interested in examining the major challenges and success factors entrepreneurs and innovators face in conducting business, globalizing a company product or service, or investing in South Asia. Over the duration of this course, students will examine case studies of foreign companies seeking to start a new venture, introduce a new product or service to the South Asian market, or South Asian companies seeking to adapt a U.S or western business model. The course will put this into the larger context of the political, economic, and social climate in several South Asian countries and explore the constraints to doing business, as well as the policy changes that have allowed for a more conducive business environment.

Cases in Global Innovation: South Asia: [Read More](#) [+]

Rules & Requirements

Prerequisites: Junior or senior standing. Recommended but not required to be taken after or along with Engineering 198

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Sidhu

Cases in Global Innovation: South Asia: [Read Less](#) [-]

IND ENG 191 Technology Entrepreneurship 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

This course explores key entrepreneurial concepts relevant to the high-technology world. Topics include the entrepreneurial perspective, start-up strategies, business idea evaluation, business plan writing, introduction to entrepreneurial finance and venture capital, managing growth, and delivering innovative products. This course prepares technical and business minded students for careers focused on entrepreneurship, intrapreneurship, and high technology. Students undertake intensive study of actual business situations through rigorous case-study analysis. This course can not be used to fulfill any engineering requirement (engineering units, courses, technical electives, or otherwise).

Technology Entrepreneurship: Read More [+]

Rules & Requirements

Prerequisites: Junior or senior standing

Credit Restrictions: Students will receive no credit for 191 after taking 190A prior to fall 2009.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Sidhu

Technology Entrepreneurship: Read Less [-]

IND ENG 192 Berkeley Method of Entrepreneurship Bootcamp 2 Units

Terms offered: Spring 2022, Summer 2021 8 Week Session, Fall 2020

This course offers the opportunity to understand the Berkeley Method of Entrepreneurship (BME) in an intensive format. The BME curriculum conveys the latest approaches for training global technology entrepreneurs. This method leverages insights on strategy, tactics, culture, and psychology with an accompanying entrepreneurial infrastructure. The curriculum is structured to provide an optimal global entrepreneurship experience from real life experiences.

Berkeley Method of Entrepreneurship Bootcamp: Read More [+]

Objectives & Outcomes

Course Objectives: * To understand and make use of the value of diversity in idea generation and new venture creation.

Student should become aware of the infrastructure available through UC Berkeley that can support them in developing new ventures.

To understand common tactics in starting new ventures including a lean learning cycle.

To understand the mindset of an entrepreneur, including the soft skills, behaviors, and psychological factors most likely to be needed to develop a new venture.

Student Learning Outcomes: Students should be able to consider a greater number of ideas for global entrepreneurship by observing the effect of background diversity in the class.

Students should be able to follow a process of idea generation, rapid prototyping / venture story development, attraction of stakeholders, data collection, and hypothesis testing and regeneration.

Students should become aware of the mindset and behaviour required for entrepreneurship and be able to reinforce some of these behaviours (eg rejection tolerance, comfort with failing or being wrong, inductive learning, venture story telling/communication abilities) through exercises in the program.

Hours & Format

Fall and/or spring: 1 weeks - 30 hours of lecture and 20 hours of discussion per week

Summer: 3 weeks - 30 hours of lecture and 20 hours of discussion per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Sidhu, Ikhlaq

Berkeley Method of Entrepreneurship Bootcamp: Read Less [-]

IND ENG 195 A. Richard Newton Lecture Series 1 Unit

Terms offered: Spring 2022, Fall 2021, Spring 2021

This lecture series serves as an entry point for undergraduate and graduate curriculum sequences in entrepreneurship and innovation. The series, established in 2005, is named in honor of A. Richard Newton, a visionary technology industry leader and late dean of the University of California Berkeley College of Engineering. The course features a selection of high-level industry speakers who share their insights on industry developments, leadership, and innovation based on their careers.

A. Richard Newton Lecture Series: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of colloquium per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Alternative to final exam.

Instructor: Sidhu

A. Richard Newton Lecture Series: Read Less [-]

IND ENG H196A Operations Research and Management Science Honors Thesis 3 Units

Terms offered: Prior to 2007

Individual study and research for at least one academic year on a special problem approved by a member of the faculty; preparation of the thesis on broader aspects of this work.

Operations Research and Management Science Honors Thesis: Read More [+]

Rules & Requirements

Prerequisites: Open only to students in the honors program

Credit Restrictions: Course may be repeated for credit with consent of instructor.

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of independent study per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

Operations Research and Management Science Honors Thesis: Read Less [-]

IND ENG H196B Operations Research and Management Science Honors Thesis 3 Units

Terms offered: Prior to 2007

Individual study and research for at least one academic year on a special problem approved by a member of the faculty; preparation of the thesis on broader aspects of this work.

Operations Research and Management Science Honors Thesis: Read More [+]

Rules & Requirements

Prerequisites: Open only to students in the honors program

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of independent study per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

Operations Research and Management Science Honors Thesis: Read Less [-]

IND ENG 197 Undergraduate Field Research in Industrial Engineering 1 - 12 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Students work on a field project under the supervision of a faculty member. Course does not satisfy unit or residence requirements for bachelor's degree.

Undergraduate Field Research in Industrial Engineering: Read More [+]

Rules & Requirements

Prerequisites: Completion of two semesters of coursework

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-12 hours of fieldwork per week

Summer:

6 weeks - 2.5-30 hours of fieldwork per week

8 weeks - 1.5-22.5 hours of fieldwork per week

10 weeks - 1.5-18 hours of fieldwork per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Undergraduate Field Research in Industrial Engineering: Read Less [-]

IND ENG 198 Directed Group Studies for Advanced Undergraduates 1 - 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Group studies of selected topics. Semester course unit value and contact hours will have a one-to-one ratio.

Directed Group Studies for Advanced Undergraduates: [Read More](#) [+]

Rules & Requirements

Prerequisites: Senior standing in Engineering

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Directed Group Studies for Advanced Undergraduates: [Read Less](#) [-]

IND ENG 199 Supervised Independent Study 1 - 4 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Supervised independent study. Enrollment restrictions apply.

Supervised Independent Study: [Read More](#) [+]

Rules & Requirements

Prerequisites: Consent of instructor and major adviser

Credit Restrictions: Course may be repeated for a maximum of four units per semester.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Summer:

6 weeks - 2.5-10 hours of independent study per week

8 weeks - 2-7.5 hours of independent study per week

10 weeks - 1.5-6 hours of independent study per week

Additional Details

Subject/Course Level: Industrial Engin and Oper Research/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Supervised Independent Study: [Read Less](#) [-]

Business Administration

[Expand all course descriptions](#) [+][Collapse all course descriptions](#) [-]

UGBA C5 Introduction to Entrepreneurship 2 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019, Fall 2018

This course offers students a taste of what it's really like to start a business. In addition to learning key foundational entrepreneurial concepts such as idea generation & evaluation, customer & product development, creating a business model, fundraising, marketing, and scaling & exiting a business, students will also hear from successful entrepreneurs who share their perspectives and best practices. Students will apply core concepts by working in teams to evaluate and select a venture idea that they will then develop throughout the semester.

Introduction to Entrepreneurship: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Also listed as: L & S C5

Introduction to Entrepreneurship: [Read Less](#) [-]

UGBA 10 Principles of Business 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

This team-taught course provides an introduction to the study of the modern business enterprise. It consists of four modules, the order of which may vary from semester to semester, and an online business simulation that runs during most of the semester. The four modules cover: Finance & Accounting, Marketing, Operations & Sustainability, and Leadership. In addition to lectures and the simulation, students attend discussion section each week.

Principles of Business: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Formerly known as: Business Administration 10

Principles of Business: [Read Less](#) [-]

UGBA C12 The Berkeley Changemaker 2 Units

Terms offered: Summer 2022 Second 6 Week Session, Spring 2022, Summer 2021 Second 6 Week Session, Spring 2021

Berkeley Changemaker impact occurs across many fronts: scientific, artistic, social, and entrepreneurial. This course helps students identify as a Berkeley Changemaker and learn the critical thinking, communication, and collaboration skills to become one. Combining disciplines across UC Berkeley, the course also helps launch the Berkeley Discovery arc. Students develop their own leadership styles and discover how they can create and lead diverse teams to act upon the world. Values in Berkeley's DNA like Questioning the Status Quo and going Beyond Yourself support students in leading from whatever position they occupy, preparing them to leave their mark on campus, in their communities, or beyond. More at: <http://changemaker.berkeley.edu>.

The Berkeley Changemaker: Read More [+]

Hours & Format

Fall and/or spring: 8 weeks - 4 hours of web-based lecture per week

Summer:

3 weeks - 10 hours of web-based lecture per week

6 weeks - 5 hours of web-based lecture per week

8 weeks - 4 hours of web-based lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Alternative to final exam.

Also listed as: L & S C12

The Berkeley Changemaker: Read Less [-]

UGBA 24 Freshman Seminars 1 Unit

Terms offered: Spring 2022, Spring 2021, Spring 2020

The Berkeley Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small-seminar setting. Berkeley Seminars are offered in all campus departments, and topics vary from department to department and semester to semester.

Freshman Seminars: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman Seminars: Read Less [-]

UGBA 39AC Philanthropy: A Cross-Cultural Perspective 3 Units

Terms offered: Fall 2021, Fall 2019, Fall 2018

This class will compare and contrast the variety of gift giving and sharing traditions that make up American philanthropy. Both the cultural antecedents and their expression in this country will be explored from five ethnic and racial groups: Native American, European American, African American, Hispanic American, and Asian American. The goal is to gain a greater understanding of the many dimensions of philanthropy as it is practiced in the United States today.

Philanthropy: A Cross-Cultural Perspective: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 39AC

Philanthropy: A Cross-Cultural Perspective: Read Less [-]

UGBA 39E Freshman/Sophomore Seminar 2 - 4 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Freshman/Sophomore Seminar: Read More [+]

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Formerly known as: Business Administration 39

Freshman/Sophomore Seminar: Read Less [-]

UGBA 88 Data and Decisions 2 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

The goal of this connector course is to provide an understanding of how data and statistical analysis can improve managerial decision-making. We will explore statistical methods for gleaning insights from economic and social data, with an emphasis on approaches to identifying causal relationships. We will discuss how to design and analyze randomized experiments and introduce econometric methods for estimating causal effects in non-experimental data. The course draws on a variety of business and social science applications, including advertising, management, online marketplaces, labor markets, and education. This course, in combination with the Data 8 Foundations course, satisfies the statistics prerequisite for admission to Haas.

Data and Decisions: Read More [+]

Rules & Requirements

Prerequisites: One semester of Calculus (Math 16A or Math 1A). Also, this is a Data Science connector course and may only be taken concurrently with or after completing Computer Science C8/Statistics C8/Information C8

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Miller

Data and Decisions: Read Less [-]

UGBA C95B Introduction to the Biotechnology Field and Industry 2 Units

Terms offered: Spring 2019

This course offers an introduction to the field of biotechnology and will cover the history of the field, its impact on medicine and society, key methodologies, important therapeutic areas, and the range of career options available in the biopharmaceutical industry. In addition to lectures on innovation and entrepreneurship, students will hear from lecturers with expertise ranging from molecular biology to clinical trial design and interpretation. Several case studies of historically impactful scientists, entrepreneurs, and biotherapeutic companies will be presented. Students will work in teams to create and develop novel biotechnology company ideas to present in class. Intended for students interested in the Biology +Business program.

Introduction to the Biotechnology Field and Industry: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Alternative to final exam.

Instructors: Kim, Lasky

Formerly known as: Molecular and Cell Biology C95B/Undergrad. Business Administration C95B

Also listed as: MCELLBI C75

Introduction to the Biotechnology Field and Industry: Read Less [-]

UGBA 96 Lower Division Special Topics in Business Administration 1 - 4 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Study in various fields of business administration for lower division students. Topics will vary from year to year and will be announced at the beginning of each semester.

Lower Division Special Topics in Business Administration: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Lower Division Special Topics in Business Administration: Read Less [-]

UGBA 98 Directed Group Study 1 - 4 Units

Terms offered: Spring 2015, Fall 2014, Spring 2014

Organized group study on topics selected by lower division students under the sponsorship and direction of a member of the Haas School of Business faculty.

Directed Group Study: Read More [+]

Rules & Requirements

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Formerly known as: Business Administration 98

Directed Group Study: Read Less [-]

UGBA 100 Business Communication 2 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Theory and practice of effective communication in a business environment. Students practice what they learn with oral presentations and written assignments that model real-life business situations.

Business Communication: Read More [+]

Rules & Requirements

Prerequisites: Restricted to Undergraduate Business Administration Majors Only

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Summer:

6 weeks - 5 hours of lecture per week

8 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Business Communication: Read Less [-]

UGBA 101A Microeconomic Analysis for Business Decisions 3 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

Economic analysis applicable to the problems of business enterprises with emphasis on the determination of the level of prices, outputs, and inputs; effects of the state of the competitive environment on business and government policies.

Microeconomic Analysis for Business Decisions: Read More [+]

Rules & Requirements

Prerequisites: Economics 1, Mathematics 1A or 16A, Statistics W21, or equivalents

Credit Restrictions: Students will receive no credit for UGBA 101A after completing ECON 100A, ECON 101A, BUS ADM 110, ENVECON 100, BUS ADM S110, IAS 106, or POLECON 106. A deficient grade in UGBA 101A may be removed by taking POLECON 106, ECON 100A, ECON 101A, ENVECON 100, IAS 106, or POLECON 106.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Microeconomic Analysis for Business Decisions: Read Less [-]

UGBA 101B Macroeconomic Analysis for Business Decisions 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2022 Second 6 Week Session, Spring 2022

Analysis of the operation of the market system with emphasis on the factors responsible for economic instability; analysis of public and business policies which are necessary as a result of business fluctuations.

Macroeconomic Analysis for Business Decisions: Read More [+]

Rules & Requirements

Prerequisites: Economics 1, Mathematics 1A or 16A, Statistics W21, or equivalents

Credit Restrictions: Students will receive no credit for UGBA 101B after completing ECON 100B, ECON 101B, BUS ADM 111, IAS 107, or POLECON 107. A deficient grade in UGBA 101B may be removed by taking ECON 100B, ECON 101B, IAS 107, or POLECON 107.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required, with common exam group.

Formerly known as: Business Administration 111

Macroeconomic Analysis for Business Decisions: Read Less [-]

UGBA 102A Financial Accounting 3 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

The identification, measurement, and reporting of financial effects of events on enterprises, with a particular emphasis on business organization. Preparation and interpretation of balance sheets, income statements, and statements of cash flows.

Financial Accounting: Read More [+]

Rules & Requirements

Credit Restrictions: Course not open for credit for students who are taking or have completed Undergraduate Business Administration W102A.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Financial Accounting: Read Less [-]

UGBA 102B Managerial Accounting 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Spring 2022, Fall 2021

The uses of accounting systems and their outputs in the process of management of an enterprise. Classification of costs and revenue on several bases for various uses; budgeting and standard cost accounting; analyses of relevant costs and other data for decision making.

Managerial Accounting: Read More [+]

Rules & Requirements

Prerequisites: 102A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Managerial Accounting: Read Less [-]

UGBA W102A Financial Accounting 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2021 First 6 Week Session, Summer 2020 First 6 Week Session

The identification, measurement, and reporting of financial effects of events on enterprises, with a particular emphasis on business organization. Preparation and interpretation of balance sheets, income statements, and statements of cash flows.

Financial Accounting: Read More [+]

Rules & Requirements

Credit Restrictions: Course not open for credit for students who are taking or have completed Undergraduate Business Administration 102A.

Hours & Format

Summer: 6 weeks - 7.5 hours of web-based lecture per week

Online: This is an online course.

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Financial Accounting: Read Less [-]

UGBA 103 Introduction to Finance 4 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2022 Second 6 Week Session, Spring 2022

Analysis and management of the flow of funds through an enterprise. Cash management, source and application of funds, term loans, types and sources of long-term capital. Capital budgeting, cost of capital, and financial structure. Introduction to capital markets.

Introduction to Finance: Read More [+]

Rules & Requirements

Prerequisites: 101A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer:

6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Introduction to Finance: Read Less [-]

UGBA 104 Introduction to Business Analytics 3 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

This course provides an introduction to several quantitative methods used to facilitate complex decision-making in business, with applications in many different industries, at different levels in the organization, and with different scopes of decisions. The power of the methods covered in this class is further enhanced by implementing them in spreadsheet software, which allows complex problems to be approached and solved in a straightforward and understandable manner.

Introduction to Business Analytics: Read More [+]

Rules & Requirements

Prerequisites: Mathematics 1B or 16B, Statistics W21, or equivalents

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 1.5 hours of laboratory per week

Summer: 6 weeks - 2.5 hours of lecture and 2.5 hours of laboratory per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Introduction to Business Analytics: Read Less [-]

UGBA 105 Leading People 3 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

A general descriptive and analytical study of organizations from the behavioral science point of view. Problems of motivation, leadership, morale, social structure, groups, communications, hierarchy, and control in complex organizations are addressed. The interaction among technology, environment, and human behavior are considered. Alternate theoretical models are discussed.

Leading People: Read More [\[+\]](#)

Rules & Requirements

Credit Restrictions: Students will receive no credit for Undergrad. Business Administration 105 after completing Business Administration 150 or S150.

Hours & Format

Fall and/or spring: 15 weeks - 1.5-3 hours of lecture and 1.5-0 hours of discussion per week

Summer:

6 weeks - 4-8 hours of lecture and 4-0 hours of discussion per week
8 weeks - 3-6 hours of lecture and 3-0 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Leading People: Read Less [\[-\]](#)

UGBA 106 Marketing 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2022 Second 6 Week Session, Spring 2022

The evolution of markets and marketing; market structure; marketing cost and efficiency; public and private regulation; the development of marketing programs including decisions involving products, price, promotional distribution.

Marketing: Read More [\[+\]](#)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer:

6 weeks - 7.5 hours of lecture per week
8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Marketing: Read Less [\[-\]](#)

UGBA 107 The Social, Political, and Ethical Environment of Business 3 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

Study and analysis of American business in a changing social and political environment. Interaction between business and other institutions. Role of business in the development of social values, goals, and national priorities. The expanding role of the corporation in dealing with social problems and issues.

The Social, Political, and Ethical Environment of Business: Read More [\[+\]](#)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 5-7.5 hours of lecture and 2.5-0 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

The Social, Political, and Ethical Environment of Business: Read Less [\[-\]](#)

UGBA 117 Special Topics in Economic Analysis and Policy 1 - 4 Units

Terms offered: Fall 2018, Spring 2018, Fall 2017

A variety of topics in economic analysis and policy with emphasis on current problems and research.

Special Topics in Economic Analysis and Policy: Read More [\[+\]](#)

Rules & Requirements

Prerequisites: 101A-101B or equivalents

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 119

Special Topics in Economic Analysis and Policy: Read Less [\[-\]](#)

UGBA 118 International Trade 3 Units

Terms offered: Fall 2021, Spring 2021, Fall 2019

This course will develop models for understanding the economic causes and effects of international trade, will investigate the effects of economic policies that inhibit trade, and will examine the political economy of trade. By integrating the findings of the latest theoretical and empirical research in international economics, this course help students learn how to explore the current political debates in the U.S. and elsewhere regarding the benefits and costs of international trade.

International Trade: Read More [+]

Rules & Requirements

Prerequisites: Undergraduate Business Administration 101A or equivalent

Credit Restrictions: Students will receive no credit for Undergraduate Business Administration 118 after taking Economics 181 or Economics C181/Environmental Economics and Policy C181.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

International Trade: Read Less [-]

UGBA 120AA Intermediate Financial Accounting 1 4 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

This Course introduces the student to concepts, theory and applications of financial accounting. The topics covered include accrual accounting concepts, financial statement analysis, inventory valuations, capital assets and their corresponding depreciation and impairment. Attention is given to examples on current reporting practices and to the study of reporting requirements promulgated by the Financial Accounting Standards Board ("FASB") with comparison to the International Accounting Standards Board ("IASB").

Intermediate Financial Accounting 1: Read More [+]

Rules & Requirements

Prerequisites: 102A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Intermediate Financial Accounting 1: Read Less [-]

UGBA 120AB Intermediate Financial Accounting 2 4 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

This course expands students' knowledge of the concepts, theory, and application of financial accounting. It continues the technical accounting sequence, which also includes UGBA 120AA, Intermediate Accounting 1 and UGBA 120B, Advanced Financial Accounting. Topics include an in-depth treatment of the financing elements of the balance sheet and the income statement, as well as a detailed examination of the statement of cash flows.

Intermediate Financial Accounting 2: Read More [+]

Rules & Requirements

Prerequisites: UGBA 102A is required. UGBA 120AA is recommended

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Intermediate Financial Accounting 2: Read Less [-]

UGBA 120B Advanced Financial Accounting 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Continuation of 120A. Sources of long term capital; funds statements, financial analysis, accounting for partnerships, consolidated financial statements, adjustments of accounting data using price indexes; accounting for the financial effects of pension plans; other advanced accounting problems.

Advanced Financial Accounting: Read More [+]

Rules & Requirements

Prerequisites: UGBA 120AA and 120AB are recommended

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Advanced Financial Accounting: Read Less [-]

UGBA 121 Federal Income Tax Accounting 4 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

Determination of individual and corporation tax liability; influence of federal taxation on economic activity; tax considerations in business and investment decisions.

Federal Income Tax Accounting: Read More [+]

Rules & Requirements

Prerequisites: 102A (120AA recommended)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Federal Income Tax Accounting: Read Less [-]

UGBA 122 Financial Information Analysis 4 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

This course is designed to: 1) develop basic skills in financial statement analysis; 2) teach students to identify the relevant financial data used in a variety of decision contexts, such as equity valuation, forecasting firm-level economic variables, distress prediction and credit analysis; 3) help students appreciate the factors that influence the outcome of the financial reporting process, such as the incentives of reporting parties, regulatory rules, and a firm's competitive environment.

Financial Information Analysis: Read More [+]

Rules & Requirements

Prerequisites: 120AA

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Financial Information Analysis: Read Less [-]

UGBA 123 Operating and Financial Reporting Issues in the Financial Services Industry 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

This course examines how accounting in the financial services industry – banking, insurance, investment industry, and real estate – actually operates. Students learn about underwriting and pricing in each sector, investment processes and controls, incentive-based profit sharing, risk management, and the factors that contribute to profitability. Students learn what financial statements reveal about estimates companies make regarding liabilities and, more generally, what they reveal about how companies deal with uncertainty associated with predicting and measuring financial results. Students examine the controversy over employing Fair Value Accounting across sectors and learn about other sector-specific accounting requirements.

Operating and Financial Reporting Issues in the Financial Services Industry: Read More [+]

Rules & Requirements

Prerequisites: Students are encouraged to complete UGBA 102A or to possess a basic understanding about how financial statements are prepared

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Operating and Financial Reporting Issues in the Financial Services Industry: Read Less [-]

UGBA 125 Ethics in Accounting 3 Units

Terms offered: Fall 2021, Fall 2020, Spring 2020

This course focuses on ethics related to the accounting for and reporting of financial statements and related financial information, and touches on the ethics of tax preparers. It is taught within the context of the American Institute of Certified Public Accountants (AICPA), as well as broader ethical concepts. This course fulfills the accounting ethics education requirement of the California Board of Accountancy, needed for a California CPA license. The course covers (i) theories and rules and (ii) the application of these theories and rules to case studies drawn from real life. Students are taught not only to identify the risks of fraud, but also how an organization's culture and structure might be altered to reduce the risks.

Ethics in Accounting: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Ethics in Accounting: Read Less [-]

UGBA 126 Auditing 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Concepts and problems in the field of professional verification of financial and related information, including ethical, legal and other professional issues, historical developments, and current concerns.

Auditing: Read More [+]

Rules & Requirements

Prerequisites: 120AA (120AB and 120B recommended)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Auditing: Read Less [-]

UGBA 127 Special Topics in Accounting 1 - 4 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

A variety of topics in accounting with emphasis on current problems and research.

Special Topics in Accounting: Read More [+]

Rules & Requirements

Prerequisites: At the discretion of the instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture and 0-1 hours of discussion per week

Summer: 6 weeks - 2.5-10 hours of lecture and 0-2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Special Topics in Accounting: Read Less [-]

UGBA 128 Strategic Cost Management 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

Managerial accounting is a company's internal language and is used for decision-making, production management, product design and pricing, performance evaluation and motivation of employees. The objective of the course is to develop the skills and analytical ability of effectively and efficiently use managerial accounting information in order to help a company achieve its strategic and financial goals.

Strategic Cost Management: Read More [+]

Rules & Requirements

Prerequisites: 102B

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Strategic Cost Management: Read Less [-]

UGBA 131 Corporate Finance and Financial Statement Analysis 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Spring 2022, Fall 2021

This course will cover the principles and practice of business finance.

It will focus on project evaluation, capital structure, and corporate governance. Firms' policies toward debt, equity, and dividends are explored. The incentives and conflicts facing managers and owners are also discussed.

Corporate Finance and Financial Statement Analysis: Read More [+]

Rules & Requirements

Prerequisites: 103

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 134

Corporate Finance and Financial Statement Analysis: Read Less [-]

UGBA 131A Corporate Strategy and Valuation 3 Units

Terms offered: Spring 2022, Spring 2020, Spring 2019

The course is designed to cover advanced corporate finance issues.

Its purpose is two-fold. First, it will help students develop a tool-box, both conceptual and quantitative, to address real-world corporate financial issues that they will likely use immediately in any finance-related career. Second, the course is designed to give the "the big picture," i.e., sharpen understanding of how corporate financial strategy helps increase a firm's value in a dynamic environment. The course examines qualitative factors that help determine financial strategy, including the costs of financial distress and the value of financial flexibility, as well as quantitative techniques, such as option pricing, that will be helpful in various analyses.

Corporate Strategy and Valuation: Read More [+]

Rules & Requirements

Prerequisites: Undergraduate Business Administration 103

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Corporate Strategy and Valuation: Read Less [-]

UGBA 132 Financial Institutions and Markets 3 Units

Terms offered: Summer 2020 First 6 Week Session, Summer 2019 First 6 Week Session, Summer 2018 First 6 Week Session
Organization, behavior, and management of financial institutions. Markets for financial assets and the structure of yields, influence of Federal Reserve System and monetary policy on financial assets and institutions.
Financial Institutions and Markets: Read More [+]

Rules & Requirements

Prerequisites: 101A-101B, and 103

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 8 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 132

Financial Institutions and Markets: Read Less [-]

UGBA 133 Investments 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2022 Second 6 Week Session, Fall 2021

Sources of and demand for investment capital, operations of security markets, determination of investment policy, and procedures for analysis of securities.

Investments: Read More [+]

Rules & Requirements

Prerequisites: 103

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Investments: Read Less [-]

UGBA 134 Introduction to Financial Engineering 3 Units

Terms offered: Spring 2019

This course provides students with an introduction to the application of mathematics and statistics in the field of finance. It consists of three integrated modules: 1) an introduction to the quantitative foundations of finance, using calculus, linear algebra, statistics and probability; 2) extension into financial theory as it relates to asset pricing, fixed income, derivatives, structured finance and risk management; and 3) application and implementation of these foundational tools and theory through software like Excel to build basic quantitative financial models (touching on programming). The goal is to use financial models that can guide business and financial decisions.

Introduction to Financial Engineering: Read More [+]

Rules & Requirements

Prerequisites: UGBA 103

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Introduction to Financial Engineering: Read Less [-]

UGBA 135 Personal Financial Management 2 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Survey of major life financial decisions (e.g., career choice, consumption versus saving, investments, mortgages, insurance) and how decision-making biases (e.g., overconfidence, present bias, limited attention) can lead to suboptimal choice. The course draws on research from economics, psychology, and sociology.

Personal Financial Management: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Odean, Selinger

Personal Financial Management: Read Less [-]

UGBA 136F Behavioral Finance 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session

This course explores why markets are sometimes inefficient. We consider the role that investors' heuristics and biases play in generating mispricing in financial markets. We also explore how various trading frictions limit the ability of arbitrageurs to reduce mispricing. Finally, we look at the influence of market inefficiencies on corporate decisions.

Behavioral Finance: Read More [+]

Rules & Requirements

Prerequisites: 103

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Behavioral Finance: Read Less [-]

UGBA 137 Special Topics in Finance 1 - 4 Units

Terms offered: Summer 2022 Second 6 Week Session, Spring 2022, Fall 2021

A variety of topics in finance with emphasis on current problems and research.

Special Topics in Finance: Read More [+]

Rules & Requirements

Prerequisites: 103

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 139

Special Topics in Finance: Read Less [-]

UGBA 141 Production and Operations Management 2 - 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2017

A survey of the concepts and methodologies for management control of production and operations systems. Topics include inventory control, material requirements planning for multistage production systems, aggregate planning, scheduling, and production distribution.

Production and Operations Management: Read More [+]

Rules & Requirements

Prerequisites: 104 or equivalent, or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2-3 hours of lecture and 0-1 hours of discussion per week

Summer: 6 weeks - 5-7.5 hours of lecture and 0-2.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 142

Production and Operations Management: Read Less [-]

UGBA 143 Game Theory and Business Decisions 3 Units

Terms offered: Fall 2014, Fall 2013, Spring 2010

This course provides an introduction to game theory and decision analysis. Game theory is concerned with strategic interactions among players (multi-player games), and decision analysis is concerned with making choices under uncertainty (single-player games). Emphasis is placed on applications.

Game Theory and Business Decisions: Read More [+]

Rules & Requirements

Prerequisites: Mathematics 1B or 16B, Statistics 21, or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Game Theory and Business Decisions: Read Less [-]

UGBA 146 Project Management 2 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2021 First 6 Week Session, Summer 2020 First 6 Week Session

The primary objective of this course is to develop the critical skills and knowledge needed to successfully pitch and lead projects, and to deliver those projects on time and within budget. The course delves into formal planning and scheduling techniques including: project definition, project selection, Work Breakdown Structure (WBS), Resource Estimation, Critical Path Method (CPM), Pert, Gantt Charts, Resource Constrained Scheduling, Project Monitoring and Project Closing.

Project Management: Read More [+]

Hours & Format

Summer: 6 weeks - 5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Project Management: Read Less [-]

UGBA 147 Special Topics in Operations and Information Technology Management 1 - 4 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Summer 2021 First 6 Week Session

A variety of topics in manufacturing and information technology with emphasis on current problems and research.

Special Topics in Operations and Information Technology Management: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Special Topics in Operations and Information Technology Management: Read Less [-]

UGBA 150 Leading High Impact Teams 3 Units

Terms offered: Spring 2022

This course helps students hone and develop the leadership skills needed to lead dynamic, complex, global teams. Globalization, rapid technological change, and a shift towards an innovation-based economy have resulted in more dynamic, distributed, cross-functional, as well as demographically and culturally diverse teams. Students will learn to create team developmental plans and accountability, coach teams through challenges, encourage teams to recognize and avoid bias and misattributions, and lead from a distance and across boundaries.

Leading High Impact Teams: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternate method of final assessment during regularly scheduled final exam group (e.g., presentation, final project, etc.).

Leading High Impact Teams: Read Less [-]

UGBA 151 Management of Human Resources 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

The designs of systems of rewards, assessment, and manpower development. The interaction of selection, placement, training, personnel evaluation, and career ladders within an on-going organization. Role of the staff manager. Introduction of change. Implications of behavioral research for management problems and policies.

Management of Human Resources: Read More [+]

Rules & Requirements

Prerequisites: 105

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 151

Management of Human Resources: Read Less [-]

UGBA 151A People Analytics 2 Units

Terms offered: Prior to 2007

This course focuses on measuring and analyzing the costs and benefits of human capital investments by providing students with the ability to develop, analyze and use information to assess and measure employee and organizational performance. The course will show participants how to develop and make critical recommendations on such information to senior management, as well as helping to increase their presence and credibility with key decision makers. On successful completion, students will have the skills necessary to formulate both qualitative and quantitative recommendations for key management decisions affecting employees.

People Analytics: Read More [+]

Hours & Format

Fall and/or spring: 8 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

People Analytics: Read Less [-]

UGBA 152 Negotiation and Conflict Resolution 3 Units

Terms offered: Summer 2022 First 6 Week Session, Spring 2022, Fall 2021

The purpose of this course is to understand the theory and processes of negotiation as practiced in a variety of settings. It is designed to be relevant to the broad spectrum of negotiation problems faced by managers and professionals. By focusing on the behavior of individuals, groups, and organizations in the context of competitive situations, the course will allow students the opportunity to develop negotiation skills experientially in useful analytical frameworks (e.g.- simulations, cases).
Negotiation and Conflict Resolution: Read More [+]

Rules & Requirements

Prerequisites: 105

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 152

Negotiation and Conflict Resolution: Read Less [-]

UGBA 154 Power and Politics in Organizations 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Fall 2021, Summer 2021 Second 6 Week Session

This course will provide students with a sense of "political intelligence." After taking this course, students will be able to: (1) diagnose the true distribution of power in organizations, (2) identify strategies for building sources of power, (3) develop techniques for influencing others, (4) understand the role of power in building cooperation and leading change in organizations, and (5) make sense of others' attempts to influence them. These skills are essential for effective and satisfying career building.

Power and Politics in Organizations: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Power and Politics in Organizations: Read Less [-]

UGBA 155 Leadership 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2021 First 6 Week Session, Fall 2020

The purpose of this course is for the students to develop understanding of the theory and practice of leadership in various organizational settings. It is designed to allow students the opportunity to develop leadership skills through experiential exercises, behavioral and self-assessments, case studies, class discussions, and lectures.

Leadership: Read More [+]

Rules & Requirements

Credit Restrictions: Students will receive no credit for UGBA 155 after completing UGBA W155. A deficient grade in UGBA 155 may be removed by taking UGBA W155.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Leadership: Read Less [-]

UGBA C155 Leadership: Purpose, Authority, and Empowerment 3 Units

Terms offered: Summer 2022 10 Week Session, Summer 2021 10 Week Session, Summer 2020 10 Week Session

The purpose of this course is for the students to develop understanding of the theory and practice of leadership in various organizational settings. It is designed to allow students the opportunity to develop leadership skills through experiential exercises, behavioral and self-assessments, case studies, class discussions, and lectures.

Leadership: Purpose, Authority, and Empowerment: Read More [+]

Rules & Requirements

Credit Restrictions: Students will receive no credit for UGBA C155 after completing UGBA W155. A deficient grade in UGBA C155 may be removed by taking UGBA W155.

Hours & Format

Summer: 10 weeks - 4.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Also listed as: UGIS C151

Leadership: Purpose, Authority, and Empowerment: Read Less [-]

UGBA W155 Leadership: Purpose, Authority, and Empowerment 3 Units

Terms offered: Prior to 2007

The purpose of this course is for the students to develop understanding of the theory and practice of leadership in various organizational settings. It is designed to allow students the opportunity to develop leadership skills through experiential exercises, behavioral and self-assessments, case studies, class discussions, and lectures.

Leadership: Purpose, Authority, and Empowerment: Read More [+]

Rules & Requirements

Credit Restrictions: Students will receive no credit for UGBA W155 after completing UGBA 155. A deficient grade in UGBA W155 may be removed by taking UGBA 155.

Hours & Format

Summer: 10 weeks - 4.5 hours of web-based lecture per week

Online: This is an online course.

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Mulhern

Leadership: Purpose, Authority, and Empowerment: Read Less [-]

UGBA 157 Special Topics in the Management of Organizations 1 - 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

A variety of topics in organizational behavior and industrial relations with emphasis on current problems and research.

Special Topics in the Management of Organizations: Read More [+]

Rules & Requirements

Prerequisites: 105

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 159

Special Topics in the Management of Organizations: Read Less [-]

UGBA 159 Becoming a Changemaker 2 Units

Terms offered: Spring 2022, Fall 2021

This course inspires, trains and equips participants to convert raw energy and enthusiasm for creating a better world into real leadership skills and mindsets which will empower you to create positive change at an individual, organizational and societal level. Anchored in change leadership and bringing together the fields of entrepreneurship, innovation, leadership & social impact, the course is focused on moving from ideas to action; gaining inspiration from diverse changemakers across roles and sectors; learning how to navigate, shape and lead change to thrive amidst uncertainty; and helping you become the kind of leader our companies, our communities and our world need right now.

Becoming a Changemaker: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Becoming a Changemaker: Read Less [-]

UGBA 160 Customer Insights 3 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Consumer behavior is the study of how consumers process information, form attitudes and judgments, and make decisions. Its study is critical to understand how consumers think and behave, which is critical for a company wishing to develop a customer focus. Given how different people are, it is amazing how similarly their minds work. Consumer psychology is the systematic study of how consumers perceive information, how they encode it in memory, integrate it with other sources of information, retrieve it from memory, and utilize it to make decisions. It is one of the building blocks of the study of marketing and provides the student with a set of tools with diverse applications.

Customer Insights: Read More [+]

Rules & Requirements

Prerequisites: 106

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Customer Insights: Read Less [-]

UGBA 161 Market Research: Tools and Techniques for Data Collection and Analysis 3 Units

Terms offered: Spring 2020, Spring 2019, Spring 2017

Information technology has allowed firms to gather and process large quantities of information about consumers' choices and reactions to marketing campaigns. However, few firms have the expertise to intelligently act on such information. This course addresses this shortcoming by teaching students how to use customer information to better market to consumers. In addition, the course addresses how information technology affects marketing strategy.

Market Research: Tools and Techniques for Data Collection and Analysis: Read More [+]

Rules & Requirements

Prerequisites: 106

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Market Research: Tools and Techniques for Data Collection and Analysis: Read Less [-]

UGBA 162 Brand Management and Strategy 3 Units

Terms offered: Spring 2022, Fall 2020, Summer 2020 First 6 Week Session

This course is an introduction to product management in marketing consumer and industrial goods and services. The course will cover analysis of market information, development of product strategy, programming strategy, and implementation.

Brand Management and Strategy: Read More [+]

Rules & Requirements

Prerequisites: 106

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 162

Brand Management and Strategy: Read Less [-]

UGBA 162A Product Branding and Branded Entertainment 2 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

As consumers demand information and products tailored specifically to their individual needs, brands strive to create alternative advertising methods to build lasting relationships and retain "top of mind" status. Smart consumers, especially those in niche markets, have dismissed traditional avenues of sponsorship and product placement. Course explores how and why brand executives across multiple industries are leveraging entertainment to connect with niche markets. It educates students about how marketers develop creative and entertaining ways to connect with multi-hyphenate customers. Course culminates in a Creative Pitch, based on a case study, and a Client Presentation where students present marketing campaigns to industry executives.

Product Branding and Branded Entertainment: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Summer: 6 weeks - 5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Product Branding and Branded Entertainment: Read Less [-]

UGBA 164 Marketing Strategy 3 Units

Terms offered: Spring 2020, Fall 2019, Spring 2019

This course specifically addresses how to deal with competition. Additionally, marketing managers usually have to make decisions with incomplete or unreliable information. In "Marketing Strategy" students learn how firms develop plans that can be updated in light of changing circumstances. The course covers the following topics: Market size estimation; Competitor identification and analysis; Internal analysis; Alternative business models; Risk identification, assessment and management using scenario planning; Handling unknown futures using sensitivity analysis; Price setting dynamics; Competitive tactics. The course utilizes a combination of lectures and cases. There are group presentations (self-selected teams) and some group projects.

Marketing Strategy: Read More [+]

Rules & Requirements

Prerequisites: 106

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Marketing Strategy: Read Less [-]

UGBA 165 Advertising Strategy 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2021 First 6 Week Session, Summer 2020 First 6 Week Session

Basic concepts and functions of advertising in the economy; consumer motivation; problems in utilizing advertising and measuring its effectiveness.

Advertising Strategy: Read More [+]

Rules & Requirements

Prerequisites: 106

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 165

Advertising Strategy: Read Less [-]

UGBA 167 Special Topics in Marketing 1 - 4 Units

Terms offered: Spring 2022, Spring 2020, Fall 2019

A variety of topics in marketing with emphasis on current problems and research.

Special Topics in Marketing: Read More [+]

Rules & Requirements

Prerequisites: 106

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer:

6 weeks - 2.5-10 hours of lecture per week

8 weeks - 4-6 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 169

Special Topics in Marketing: Read Less [-]

UGBA 169 Pricing 3 Units

Terms offered: Spring 2022, Spring 2021, Fall 2019

This three-module course aims to equip students with proven concepts, techniques, and frameworks for assessing and formulating pricing strategies. The first module develops the economics and behavioral foundations of pricing. The second module discusses several innovative pricing concepts including price customization, nonlinear pricing, price matching, and product line pricing. The third module analyzes the strengths and weaknesses of several Internet-based, buyer-determined pricing models.

Pricing: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Pricing: Read Less [-]

UGBA 171 Tech and the City: How to Get Urban Innovation Right 3 Units

Terms offered: Spring 2022

This course critically examines how new technologies and business models impact cities, and identifies the approaches that produce not only the best business outcomes, but also the most equitable and sustainable outcomes. To begin, we explore what makes cities such compelling laboratories for technology innovation, learn from past attempts at “smart city” interventions, and discuss how technologists can identify more effective solutions to today’s urban challenges. We’ll then hear from a variety of cutting edge practitioners, including venture investors, startup founders, government officials, tech journalists and community organizers about the unique opportunities and challenges of building an urban tech startup today.

Tech and the City: How to Get Urban Innovation Right: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Tech and the City: How to Get Urban Innovation Right: Read Less [-]

UGBA C172 History of American Business 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2019

This course will examine selected aspects of the history of American business. Included will be discussions of the evolution of the large corporation, the development of modern managerial techniques, and the changing relationship of business, government, and labor.

History of American Business: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Rosen

Formerly known as: American Studies C172, Business Administration C172

Also listed as: AMERSTD C172

History of American Business: Read Less [-]

UGBA 173 Competitive Strategy 3 Units

Terms offered: Fall 2021

This course draws upon theories and frameworks from industrial organization economics, game theory, and resource-based views to address the unique challenges confronted by senior executives of organizations. The focus is strategies for competitive advantage at an organizational level. Topics include industry and competitor analysis, horizontal and vertical boundaries of the firm, strategic positioning, internal competencies, and dynamic capabilities.

Competitive Strategy: Read More [+]

Rules & Requirements

Prerequisites: 101A or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer:

3 weeks - 15 hours of lecture per week

6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Metzler

Formerly known as: Undergrad. Business Administration 115

Competitive Strategy: Read Less [-]

UGBA 174 Leading Strategy Implementation 3 Units

Terms offered: Fall 2021

Class format consists of lectures, experiential exercises, student presentations, and case discussions. This course will cover the concepts and techniques required for successful implementation of business strategies with a particular focus on the role of effective leadership in leading strategic change.

Leading Strategy Implementation: Read More [+]

Rules & Requirements

Credit Restrictions: Students will receive no credit for UGBA 174 after completing BUS ADM 190.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 10 weeks - 4.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Formerly known as: Undergrad. Business Administration 119

Leading Strategy Implementation: Read Less [-]

UGBA 175 Legal Aspects of Management 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

An analysis of the law and the legal process, emphasizing the nature and functions of law within the U.S. federal system, followed by a discussion of the legal problems pertaining to contracts and related topics, business association, and the impact of law on economic enterprise.

Legal Aspects of Management: Read More [\[+\]](#)

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 175

Legal Aspects of Management: Read Less [\[-\]](#)

UGBA 176 Innovations in Communications and Public Relations 2 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

This course introduces students to public relations and how it is used by companies, non-profits and individuals to build and support their brands through innovative communication techniques. Students will hear from and have direct access to entrepreneurs and established executives who share insights on how they've used creative public relations campaigns and communications skills to create attention and value for their brand or avoid it in a crisis. They also learn to work in teams crafting effective media responses for an existing company needing real help now (not a case study). The semester ends with each student applying this technique to create their own personal brand that they can refine as they prepare to move into the workforce.

Innovations in Communications and Public Relations: Read More [\[+\]](#)

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Summer: 6 weeks - 5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Innovations in Communications and Public Relations: Read Less [\[-\]](#)

UGBA 177 Special Topics in Business and Public Policy 1 - 4 Units

Terms offered: Fall 2021, Spring 2021, Fall 2020

A variety of topics in business and public policy with emphasis on current problems and research.

Special Topics in Business and Public Policy: Read More [\[+\]](#)

Rules & Requirements

Prerequisites: 107

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 179

Special Topics in Business and Public Policy: Read Less [\[-\]](#)

UGBA 178 Introduction to International Business 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Fall 2021, Summer 2021 Second 6 Week Session

A survey involving environmental, economic, political, and social constraints on doing business abroad; effects of overseas business investments on domestic and foreign economies; foreign market analysis and operational strategy of a firm; management problems and development potential of international operations.

Introduction to International Business: Read More [\[+\]](#)

Rules & Requirements

Prerequisites: Undergraduate Business Administration 101A-101B or equivalents

Credit Restrictions: Students will receive no credit for Undergraduate Business Administration 178 after completing Business Administration 188. A deficient grade in Business Administration 188 may be removed by taking Undergraduate Business Administration 178.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Introduction to International Business: Read Less [\[-\]](#)

UGBA 179 International Consulting for Small and Medium-Sized Enterprises 3 Units

Terms offered: Fall 2021, Fall 2020, Spring 2020

By exploring the intersection of global business, entrepreneurship, and consulting, this course provides an understanding of how decision-makers in small and medium sized enterprises (SMEs) can develop the frameworks necessary for making decisions about how to venture across borders in pursuit of economic opportunities in today's hypercompetitive global business environment. In addition to the technical analysis of cases, there is a strong emphasis on how to create a new service company, market and sell to potential clients, manage client relationships, and leverage financial and human resources in a service setting. International Consulting for Small and Medium-Sized Enterprises: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

International Consulting for Small and Medium-Sized Enterprises: Read Less [-]

UGBA 180 Introduction to Real Estate and Urban Land Economics 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

The nature of real property; market analysis; construction cycles; mortgage lending; equity investment; metropolitan growth; urban land use; real property valuation; public policies.

Introduction to Real Estate and Urban Land Economics: Read More [+]

Rules & Requirements

Prerequisites: Economics 1, Mathematics 16A or 1A, or equivalents

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 180

Introduction to Real Estate and Urban Land Economics: Read Less [-]

UGBA 183 Introduction to Real Estate Finance 3 Units

Terms offered: Spring 2020, Spring 2019, Spring 2018

Real estate debt and equity financing; mortgage market structure; effects of credit on demand; equity investment criteria; public policies in real estate finance and urban development.

Introduction to Real Estate Finance: Read More [+]

Rules & Requirements

Prerequisites: 180

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 183

Introduction to Real Estate Finance: Read Less [-]

UGBA 184 Urban and Real Estate Economics 3 Units

Terms offered: Spring 2016, Spring 2015, Spring 2014

This course examines how market forces influence the development of cities and the development and pricing of real estate assets. Topics include city formation; city size; land rent and land use; the operation of residential, commercial and industrial property markets; and the impacts of government policies, including the provision of public services, the imposition property taxes and fees, transportation pricing and investment, and land use regulations.

Urban and Real Estate Economics: Read More [+]

Rules & Requirements

Prerequisites: A background in microeconomics and basic calculus is preferable. Please contact the instructor if you are unsure about your preparation for this course

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Urban and Real Estate Economics: Read Less [-]

UGBA 187 Special Topics in Real Estate Economics and Finance 1 - 4 Units

Terms offered: Fall 2010, Fall 2009

A variety of topics in real estate economics and finance with emphasis on current problems and research.

Special Topics in Real Estate Economics and Finance: Read More [\[+\]](#)

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer: 6 weeks - 2.5-10 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Special Topics in Real Estate Economics and Finance: Read Less [\[-\]](#)

UGBA 190C Collaborative Innovation 4 Units

Terms offered: Spring 2022, Spring 2020

This is a project-based course in collaborative innovation where students experience group creativity and team-based design by using techniques from across the disciplines of business, theater, design, and art practice. Students will leverage problem framing and solving techniques derived from critical thinking, systems thinking, and creative problem solving (popularly known today as design thinking). The course is grounded in a brief weekly lecture that sets out the theoretical, historical, and cultural contexts for particular innovation practices, but the majority of the class involves hands-on studio-based learning guided by an interdisciplinary team of teachers leading small group collaborative projects.

Collaborative Innovation: Read More [\[+\]](#)

Rules & Requirements

Credit Restrictions: Students will receive no credit for UGBA 190C after completing ART 100, or THEATER 100. A deficient grade in UGBA 190C may be removed by taking ART 100, or THEATER 100.

Hours & Format

Fall and/or spring: 15 weeks - 6 hours of studio per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Beckman

Collaborative Innovation: Read Less [\[-\]](#)

UGBA 190D Innovation and Design Thinking in Business 2 Units

Terms offered: Spring 2022, Fall 2021, Fall 2020

The goal of this course is to equip students with innovation skills and practices. This is a learn-by-doing lab. Students learn research methods, ethnography, analysis and synthesis, reflective thinking, scenario creation, ideation processes, rapid prototyping cycles and designing experiments, iterative design and how to tell the story of "Never Before Seen" ideas. Class time is spent using hands-on innovation and human-centered design practices. Teams present work for critique and iterative development. The course features short lectures, guest talks, campus-based fieldwork, site visits, research and readings. Projects will be launched in the sessions and each team will be coached and mentored.

Innovation and Design Thinking in Business: Read More [\[+\]](#)

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Innovation and Design Thinking in Business: Read Less [\[-\]](#)

UGBA 190S Strategy for the Information Technology Firm 2 - 3 Units

Terms offered: Prior to 2007

This course is a strategy and general management course for students interested in pursuing careers in the global information technology industry. Students are taught to view the IT industry through the eyes of the general manager/CEO (whether at a start-up or an industry giant). They learn how to evaluate strategic options and their consequences, how to understand the perspectives of various industry players, and how to anticipate how they are likely to behave under various circumstances. These include the changing economics of production, the role network effects and standards have on adoption of new products and services, the tradeoffs among potential pricing strategies, and the regulatory and public policy context.

Strategy for the Information Technology Firm: Read More [\[+\]](#)

Hours & Format

Fall and/or spring: 15 weeks - 2-3 hours of lecture per week

Summer: 8 weeks - 4-6 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Strategy for the Information Technology Firm: Read Less [\[-\]](#)

UGBA 190T Special Topics in Innovation and Design 1 - 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Advanced study in the fields of innovation and design that will address current and emerging issues. Topics will vary with each offering and will be announced at the beginning of each term.

Special Topics in Innovation and Design: [Read More](#) [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer:

6 weeks - 2.5-10 hours of lecture per week

8 weeks - 2-7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Special Topics in Innovation and Design: [Read Less](#) [-]

UGBA 191C Communication for Leaders 2 Units

Terms offered: Fall 2016, Summer 2016 10 Week Session, Summer 2016 Second 6 Week Session

This course is a workshop in the fundamentals of public speaking skills in today's business environment. Each student will give speeches, coach, and debate each other, and take part in a variety of listening and other communication exercises. The course focuses on authenticity, persuasion, and advocacy.

Communication for Leaders: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 2 hours of discussion per week

Summer:

6 weeks - 2.5 hours of lecture and 5 hours of discussion per week

8 weeks - 1.5 hours of lecture and 3.5 hours of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Communication for Leaders: [Read Less](#) [-]

UGBA 191I Improvisational Leadership 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

This class explores the broad principles of improvisation, a performing art form that has developed pedagogical methods to enhance individual spontaneity, listening and awareness, expressive skills, risk-taking, and one's ability to make authentic social and emotional connections. The ultimate aim of the course is to help students develop an innovative and improvisational leadership mindset, sharpening in-the-moment decision making and the ability to quickly recognize and act upon opportunities when presented. In practical terms, this course strives to enhance students' business communication skills and increase both interpersonal intuition and confidence.

Improvisational Leadership: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Improvisational Leadership: [Read Less](#) [-]

UGBA 191L Leadership Communication 1 Unit

Terms offered: Spring 2020, Fall 2019

Leadership Communication is a workshop in the fundamentals of public speaking in today's business environment. Through prepared and impromptu speeches aimed at moving others to action, peer coaching, and lectures, students will sharpen their authentic and persuasive communication skills, develop critical listening skills, improve abilities to give, receive, and apply feedback, and gain confidence as public speakers.

Leadership Communication: [Read More](#) [+]

Hours & Format

Fall and/or spring: 2 weeks - 8 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Alternative to final exam.

Leadership Communication: [Read Less](#) [-]

UGBA 191P Leadership and Personal Development 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

This course is highly interactive and challenges you to explore questions central to your own leadership journey. The ultimate aim of the class is to help you develop a lifelong leadership development practice, where continuous personal growth is valued and actively pursued.

Leadership and Personal Development: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Leadership and Personal Development: [Read Less](#) [-]

UGBA 192A Leading Nonprofit and Social Enterprises 3 Units

Terms offered: Spring 2022, Spring 2020, Spring 2019

This course prepares students conceptually and practically to found, lead, and manage organizations in the nonprofit sector. The course focuses on mission and theory of change (strategy), role of the board in governance, managing and marketing to multiple constituencies, role of advocacy in meeting mission, leadership styles and managing organizational culture, resource development (philanthropy), nonprofit financial management, managing for impact, HR management (volunteering), and cross-sector alliances.

Leading Nonprofit and Social Enterprises: [Read More](#) [+]

Rules & Requirements

Prerequisites: 101A or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Formerly known as: Business Administration 115

Leading Nonprofit and Social Enterprises: [Read Less](#) [-]

UGBA 192AC Social Movements and Social Media 3 Units

Terms offered: Spring 2020, Spring 2019, Fall 2017

This course provides a survey of innovative social movements and their complex relationships to social media technologies. It will examine the evolution from pre-social-media to present-day mobilizing strategies and the interplay between explicitly policy- and advocacy-focused approaches and related efforts rooted in music, visual arts, popular culture and celebrities. The course will place into comparative relief the discourses of explicitly racially- or ethnically-defined movements and movements that mobilize based on other, sometimes overlapping categories of marginalization including class, immigration status, gender identity and occupational category.

Social Movements and Social Media: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: David Harris

Social Movements and Social Media: [Read Less](#) [-]

UGBA 192B Strategic Philanthropy 2 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

This course teaches students the concepts and practices of effective philanthropy. It offers students the experience of studying relevant theories and frameworks for assessing potential grant recipients and a real-world grant making experience in which they complete a series of nonprofit organizational assessments and then make actual grants totaling \$10,000 to a limited number of organizations. Students learn about the evolution of the philanthropic sector from traditional entities, such as private, corporate and community foundations, to an array of new funding intermediaries, technology-driven philanthropies, open source platforms, "impact" investors, and venture philanthropy partnerships.

Strategic Philanthropy: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Strategic Philanthropy: [Read Less](#) [-]

UGBA 192E Social Entrepreneurship 2 Units

Terms offered: Fall 2021, Fall 2019

This course is designed to provide broad exposure to the theories and activities of social entrepreneurship. The inquiry is grounded in real-world examples that illustrate the topics and stimulate thinking, discussion, and learning. Working in groups, students develop a business plan or pitch deck for a social enterprise that addresses an issue that is of interest/concern to the student team. Students with preexisting social enterprise ideas or plans that they would like to further develop and refine are welcomed and encouraged to use this class project as an opportunity to do so.

Social Entrepreneurship: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Social Entrepreneurship: [Read Less](#) [-]

UGBA 192G Strategic Approaches for Global Social Impact 2 Units

Terms offered: Prior to 2007

The main objective of this course is to help students become effective practitioners in global development and understand career options in the global social sector. The course aims to (i) analyze the historical, sociological and statistical underpinnings of the major issues in global development (conflict, food security, human rights, poverty, health and education), (ii) understand what various organizations can contribute to each issue (government agencies, multilateral institutions, private foundations, NGOs, and private sector companies and entrepreneurs), and (iii) design and analyze approaches to addressing these issues.

Strategic Approaches for Global Social Impact: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Strategic Approaches for Global Social Impact: [Read Less](#) [-]

UGBA 192H Managing Human Rights in Business 2 Units

Terms offered: Spring 2021

This course, one of the first of its kind offered at a business school, will prepare students for the growing field of practice at the intersection of business and human rights. Students will gain an overview of the international human rights framework and global business and human rights standards and guidelines; analyze the ways in which companies can impact human rights, and to assess the degree to which companies are and should be responsible for human rights impacts; learn to manage a company's human rights impacts as corporate human rights managers, external consultants, or civil society advocates; and practice the communication skills necessary to successfully address human rights issues within a complex multinational corporation.

Managing Human Rights in Business: [Read More](#) [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Managing Human Rights in Business: [Read Less](#) [-]

UGBA 192ID Impact Startup Disco 1 Unit

Terms offered: Spring 2022

This is a high-octane, single weekend course (plus one intro day) for students interested in meeting other innovators and getting hands-on experience developing a new impact startup concept. All "social and environmental" impact themes are welcome. The course is inspired by other "hackathon" and startup weekend formats. A structured roadmap helps guide students through a sprint formation and ideation process. All students will be asked to submit an idea during the week prior to the class. After a peer vote selects the top ideas, teams are organically formed during the first session. At the end of the course, each team will present their validated concept and their next steps plan to a panel of impact venture experts.

Impact Startup Disco: [Read More](#) [+]

Hours & Format

Fall and/or spring: 1 weeks - 15 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Impact Startup Disco: [Read Less](#) [-]

UGBA 192L Applied Impact Evaluation 2 Units

Terms offered: Prior to 2007

This course covers the methods and applications of impact evaluations, which is the science of measuring the causal impact of a program or policy on outcomes of interest. At its essence, impact evaluation is about generating evidence on which policies work, and which don't. This subject matter should appeal to three main audiences: (1) those in decision-making positions, such as policy makers and business leaders, and need to consume the information generated from impact evaluations to make informed evidence-based decisions, (2) project managers, development practitioners and business managers who commission impact evaluations and (3) researchers who actually design and implement impact evaluations.

Applied Impact Evaluation: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Applied Impact Evaluation: Read Less [-]

UGBA 192MC Management Consulting Skills for Social Impact 2 Units

Terms offered: Fall 2021

This course provides a basic understanding of what consultants do and how they do it, and how consulting skills can be applied to thorny problems of social impact. Students will: 1) gain a broad understanding of the management consulting industry, the various consulting models, and how consultants can generate value for their clients in the social sector; 2) learn and practice structured approaches to problem solving used by leading management consultancies; and 3) understand other skills required in management consulting for social impact – such as communicating persuasively and managing projects and client relationships – as well as some of the ethical issues that consultants often face working in the social sector.

Management Consulting Skills for Social Impact: Read More [+]

Hours & Format

Fall and/or spring:

12 weeks - 2.5 hours of lecture per week

15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Alternate method of final assessment during regularly scheduled final exam group (e.g., presentation, final project, etc.).

Management Consulting Skills for Social Impact: Read Less [-]

UGBA 192N Topics in Social Sector Leadership 1 - 5 Units

Terms offered: Spring 2022, Fall 2019, Spring 2019

Advanced study in the field of social sector leadership that will address current and emerging issues. Topics will vary with each offering and will be announced at the beginning of each term.

Topics in Social Sector Leadership: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-5 hours of lecture per week

Summer: 6 weeks - 2.5-12.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Topics in Social Sector Leadership: Read Less [-]

UGBA 192P Sustainable Business Consulting Projects 3 Units

Terms offered: Fall 2021, Fall 2020, Fall 2018

Discuss the field of strategic corporate social responsibility (CSR) through a series of lectures, guest speakers, and projects. The course will examine best practices used by companies to engage in socially responsible business practices. It will provide students with a flavor of the complex dilemmas one can face in business in trying to do both "good for society" and "well for shareholders." It looks at CSR from a corporation perspective, and how this supports core business objectives, core competencies, and bottom-line profits.

Sustainable Business Consulting Projects: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Sustainable Business Consulting Projects: Read Less [-]

UGBA 192S Business and Sustainability 2 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2021 First 6 Week Session, Summer 2020 First 6 Week Session

This course—a mixture of lectures, readings, business cases and corporate speakers—uses theory, frameworks, tools and business cases to teach students how to systematically evaluate and implement sustainability strategies that also maintain or maximize financial returns. Students are taught to identify opportunities to create business value from environmental and social challenges, and to evaluate the competitive implications related to sustainability initiatives. What type of long-term strategies can organizations set to simultaneously foster sustainable development strategy and sound financial practice? How should decision makers make trade-offs between these two organizational objectives? When is “sustainability” also “good business”? Business and Sustainability: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Summer: 6 weeks - 5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Business and Sustainability: Read Less [-]

UGBA 192T Topics in Responsible Business 1 - 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Advanced study in the field of corporate social responsibility that will address current and emerging issues. Topics will vary with each offering and will be announced at the beginning of each term.

Topics in Responsible Business: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer:

6 weeks - 2.5-10 hours of lecture per week

8 weeks - 2-8 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Topics in Responsible Business: Read Less [-]

UGBA C192R Business, Sustainability, and Society 3 Units

Terms offered: Summer 2022 8 Week Session, Summer 2021 8 Week Session

As corporations have grown in influence, concerns over their impact on people and the planet have also grown, pushing sustainability, corporate social responsibility, and the wider impact of business into the spotlight. This course focuses on business ethics, supply chains, resource constraints, labor issues, innovation, and environmental externalities, as well as the internal challenges, competitive pressures, external stakeholders, and other issues that businesses must consider while trying to act responsibly.

Business, Sustainability, and Society: Read More [+]

Hours & Format

Summer: 8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required, with common exam group.

Instructor: Rochlin

Also listed as: ENE, RES C192

Business, Sustainability, and Society: Read Less [-]

UGBA 193B Energy & Civilization 4 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

Energy is one of the main drivers of civilization. Today we are at the precipice of what many hope will be a major paradigm shift in energy production and use. Two transitions are needed. On the one hand, we must find ways to extend the benefits of our existing energy system to the impoverished people living in the developing world while continuing to provide these benefits to the people of the developed world. On the other hand, we must completely overhaul the existing system to fight climate change and other forms of air and water pollution. Are these shifts truly within our reach? Can we achieve both simultaneously? If so, how? This Big Ideas course will grapple with these questions using an interdisciplinary systems approach.

Energy & Civilization: Read More [+]

Rules & Requirements

Credit Restrictions: Students will receive no credit for UGBA 193B after completing L & S 126. A deficient grade in UGBA 193B may be removed by taking L & S 126.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Energy & Civilization: Read Less [-]

UGBA 193C Practical Training 0.5 Units

Terms offered: Summer 2014 10 Week Session, Summer 2013 10 Week Session, Summer 2012 10 Week Session

A structured reflective experience on the applied aspects of Business Administration in a professional off-campus environment. The self-selected experience from a CPT employer is designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a real world setting. This applied course is intended for students to enhance their academics through their experience with the experiential learning activity of their choice.

Practical Training: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction. Students may enroll in multiple sections of this course within the same semester.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of internship per week

Summer: 6 weeks - 0 hours of internship per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Alternative to final exam.

Practical Training: Read Less [-]

UGBA 193I Business Abroad 4 - 6 Units

Terms offered: Summer 2019 8 Week Session, Summer 2018 Second 6 Week Session, Summer 2017 Second 6 Week Session

This course includes both formal learning in lectures, experiential learning, and action research through site visits abroad. Students and instructor will visit with international companies and/or organizations to learn about the business opportunities and challenges of operating in a specific country or region. Evaluation is based on student participation, presentations, and a research paper. Country and business industry focus may vary from term to term depending upon the instructor.

Business Abroad: Read More [+]

Rules & Requirements

Prerequisites: To be determined by instructor depending on topic

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 4-6 hours of lecture per week

Summer: 5 weeks - 16-25 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Business Abroad: Read Less [-]

UGBA 194 Undergraduate Colloquium on Business Topics 1 Unit

Terms offered: Spring 2022, Spring 2021, Spring 2020

This is a speakers series course designed to give students insights from practitioners into complex issues facing American business leaders. Each week a guest speaker will discuss an issue related to a particular theme, ranging from corporate governance to the social responsibilities of business. Students will be challenged to synthesize, question, and extend those insights under the guidance of the instructor.

Undergraduate Colloquium on Business Topics: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Summer: 6 weeks - 2.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

Undergraduate Colloquium on Business Topics: Read Less [-]

UGBA 195A Entrepreneurship 3 Units

Terms offered: Spring 2020, Fall 2019, Spring 2019

Do you have an idea for a new business, but want to learn how to more fully develop this idea? Would you like to receive funding for your business idea, but lack a framework to ask for capital? This course takes students through the new venture process using a business plan as the main deliverable. A well-written business plan sets key milestones and indicates the resources needed to achieve them, in an increasingly complex business environment. Through the planning process that tightly links market and financial planning a business plan creates a set of standards to which investors and teammates can evaluate actual performance, laying the foundation for an "operating plan" once the business is launched.

Entrepreneurship: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Entrepreneurship: Read Less [-]

UGBA 195B Startup and Small-Business Consulting 2 Units

Terms offered: Fall 2021

This course is designed to provide students with an understanding of the concepts and principles for consulting with startups and small businesses. Students will work in self-created teams of 3-4 and can either bid for projects provided by the instructor, or source their own project so long as it fits the course criteria. Course time will include guest lecturers and consulting skills workshops. Student teams will be expected to meet together and with the client outside of class time.

Startup and Small-Business Consulting: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Startup and Small-Business Consulting: Read Less [-]

UGBA 195P Entrepreneurship: How to Successfully start a New Business 3 Units

Terms offered: Fall 2021, Fall 2019, Fall 2018

This course explores and examines key issues facing entrepreneurs and their businesses. It is intended to provide a broad spectrum of topics across many business disciplines including accounting, finance, marketing, organizational behavior, production/quality, technology, etc. Students will acquire a keen understanding of both the theoretical and real world tools used by today's entrepreneurial business leaders in achieving success in today's global business environment.

Entrepreneurship: How to Successfully start a New Business: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Entrepreneurship: How to Successfully start a New Business: Read Less [-]

UGBA 195S Entrepreneurship To Address Global Poverty 3 Units

Terms offered: Spring 2013, Spring 2012, Spring 2011

This course examines whether and how entrepreneurial ventures can meaningfully address global poverty vs. more traditional approaches such as foreign aid, private philanthropy or corporate social responsibility initiatives. Combining lectures, case studies, and interviews with social entrepreneurs, it explores poverty and entrepreneurship before focusing on their intersection in various bottom-of-pyramid markets, from health, housing, and education to energy, agriculture, and finance.

Entrepreneurship To Address Global Poverty: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Entrepreneurship To Address Global Poverty: Read Less [-]

UGBA 195T Topics in Entrepreneurship 1 - 3 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

Courses of this kind will cover issues in entrepreneurship that either appeal to a specialized interest by type of firm being started (e.g., new ventures in computer software) or in the aspect of the entrepreneurial process being considered (e.g., new venture funding). The courses typically will be designed to take advantage of the access offered by the University and the locale to knowledgeable and experienced members of the business community.

Topics in Entrepreneurship: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-3 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Topics in Entrepreneurship: Read Less [-]

UGBA C195C Life Sciences, Business, and Entrepreneurship Capstone Course 4 Units

Terms offered: Prior to 2007

Blended lecture / Project-based course where student teams build out a business plan for a mock biotech company, demonstrating advanced knowledge in therapeutics and business development. Throughout the course student teams will work toward a final project in which they will identify and present a technology overview, disease overview and explanation of unmet need, a development plan, a commercialization plan, risk mitigation strategy, and financials. Class will include field trips, guest lectures, and a pitch competition with prize.

Life Sciences, Business, and Entrepreneurship Capstone Course: Read More [+]

Rules & Requirements

Prerequisites: Students must be in their fourth and final year of the Life Sciences, Business, and Entrepreneurship Program in order to enroll in this class

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Schaletzky, Dillin

Also listed as: MCELLBI C175

Life Sciences, Business, and Entrepreneurship Capstone Course: Read Less [-]

UGBA 196 Special Topics in Business Administration 1 - 4 Units

Terms offered: Spring 2022, Fall 2021, Spring 2021

Study in various fields of business administration. Topics will vary from year to year and will be announced at the beginning of each semester. Special Topics in Business Administration: Read More [+]

Rules & Requirements

Prerequisites: Upper division standing

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Summer:

6 weeks - 2.5-10 hours of lecture per week

10 weeks - 2-4 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: Business Administration 196

Special Topics in Business Administration: Read Less [-]

UGBA 196SA Business Models for Sustainability 3 Units

Terms offered: Not yet offered

This course explores the ways in which business, social and environmental sustainability are intertwined. The course maps how business can play a definitive role in addressing the problems of sustainability, primarily with regard to climate change. The course examines a range of approaches to developing business models in the context of sustainability, the actions that business can take to improve environmental outlook, and the emergence of a sustainability-aware economy.

Business Models for Sustainability: Read More [+]

Hours & Format

Summer: 6 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/ Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Business Models for Sustainability: Read Less [-]

UGBA 196SC Investing for Sustainability 3 Units

Terms offered: Not yet offered

This course examines how capital markets and the investment industry are responding to the growth in social and environmental sustainability, both as a financial risk to investment opportunities and increased public awareness in the role of financial markets and investment in social and environmental issues. The course includes 1) an introduction to capital markets including institutional investment, public finance and private capital, and 2) an examination of the rise of sustainability-related investing including environmental, social and governance investing, mission-related investment, venture capital impact investing, blended finance and shareholder activism on issues ranging from climate change to diversity, equity and inclusion.

Investing for Sustainability: Read More [+]

Hours & Format

Summer: 6 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Investing for Sustainability: Read Less [-]

UGBA 198 Directed Study 1 - 4 Units

Terms offered: Spring 2016, Fall 2015, Spring 2015

Organized group study on topics selected by upper division students under the sponsorship and direction of a member of the Haas School of Business faculty.

Directed Study: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Formerly known as: Business Administration 198

Directed Study: Read Less [-]

UGBA 199 Supervised Independent Study and Research 1 - 4 Units

Terms offered: Fall 2020, Spring 2015, Spring 2014

Enrollment restrictions apply.

Supervised Independent Study and Research: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Summer:

6 weeks - 1-4 hours of independent study per week

8 weeks - 1-4 hours of independent study per week

Additional Details

Subject/Course Level: Undergrad. Business Administration/
Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Formerly known as: Business Administration 199

Supervised Independent Study and Research: Read Less [-]