

COLLEGE OF BUSINESS ADMINISTRATED PROGRAMS

B.B.A. and Accelerated Degree

The Economics, Bachelor of Business Administration shares with the discipline of economics some of the same conceptual concerns, but its focus is on the business firm and its well-being. Economics is a social science focusing on the economic well-being of society.

The Economics, B.B.A./Management of Information and Technology, M.S. program is a great opportunity for undergraduate students who are pursuing a BBA degree to earn a master's degree with a specialization in data analytics.

Minor

Price College offers a Minor in General Business for Non-Business Majors.

Master's Degrees

The Master of Business Administration cohort-based program enhances teamwork and collaboration through designed case studies and interactive learning. The program offers an array of industry specializations, certificates, summer internships, and dual-degree opportunities so that students' educational experiences are uniquely tailored to their career goals.

The Professional Master of Business Administration program is designed for both rising and seasoned professionals in the Oklahoma City area looking to advance their careers.

The Executive Master of Business Administration in Aerospace & Defense (EMAD) delivers business management education to the growing Aerospace and Defense industry. This executive master's degree seeks to enhance and expand the career educational opportunities for working professionals in the Aerospace & Defense industry (A&D) with the State of Oklahoma, the U.S., and the broader global community by providing a unique and high-level educational experience focused on fundamental and advanced topics in the field of business specifically tailored for A&D.

The Executive Master of Business Administration in Energy program is designed to create current and future leaders in the energy industry. The program offers students with the business fundamentals specifically customized for energy professionals, a global perspective on energy, and executive career coaching to enhance their leadership skills.

Graduate Certificates

The Aerospace & Defense Analytics Graduate Certificate is designed to enhance professional development in the aerospace and defense industry.

The Commercial Space Applications Graduate Certificate is designed to enable students with an interest in commercial space applications to build on their skillsets to include securing government and private funding for startups.

The Executive Management in Aerospace and Defense Graduate Certificate delivers business management education to the growing Aerospace/Defense industry. The graduate certificate is available to managers, executives, and employees in a wide variety of fields who work

in the Aerospace/Defense industry. The certificate provides additional management education for these professionals who need specific skills using a flexible format, enabling students to tailor the certificate to their own needs, as well as those of their employer. The program prepares them for careers at the interface of managerial and leadership positions in aerospace and defense organizations, consulting companies, government agencies, and defense contractors.

The Foundations of Business Graduate Certificate is offered for any OU graduate or professional student.

The Hydrocarbon Energy Graduate Certificate will provide students will specific skills and knowledge relevant to today's rapidly evolving hydrocarbon-based energy industry.

The Renewable Energy Graduate Certificate will offer students with opportunities to gain expertise in the renewable energy field to further their professional careers and better position them as leaders in this transitioning industry.

Doctor of Philosophy

The Business Administration, Ph.D. is a high-quality program stressing solid preparation, collaborative relationships with faculty, support for research and professional travel, and strong placements. This program provide students with the necessary knowledge, training, and resources to pursue successful careers in research and teaching that expand the frontiers of knowledge in business disciplines.

Courses

B AD 1001 Personal Computing Productivity Tools 1 Credit Hour

B AD 1001 is designed to help all business majors and business minors succeed as students and young professionals. Being able to effectively utilize OneDrive (cloud storage system) and Microsoft Excel are skills recognized by all employers. These skills allow young professionals to differentiate themselves from others when applying for internships or jobs. (F, Sp, Su)

B AD 1010 Passport to Success II 0 Credit Hours

Prerequisite: Degree Candidacy. Collection of curricular, co-curricular and extracurricular activities that enable students to succeed in the workplace regardless of major within Price College of Business. Students are required to earn a total of 40 "milestones" to successfully graduate from Price College. At least five and no more than seven milestones should be earned each semester. Milestones are chosen from an approved list. (F, Sp)

B AD 1523 Business for People, Prosperity, and the Planet 3 Credit Hours

This course introduces students to the world of business while supporting their transition to the University of Oklahoma and building a collaborative learning community. This course uses a business simulation to help you build cultural fluency, critical thinking, civil discourse, citizenship, and community engagement, which are all keys to their success in college and beyond. (F, Sp) [V-FYE].

B AD 2091 Career Readiness I-Transitioning to the Workplace**1 Credit Hour**

Prerequisite: Business majors only. Introduces students to the professional world of business. Emphasizes important aspects such as business culture, communications, ethics, social responsibility and business skills development. Prepares students for a professional future and to identify and address strengths and weaknesses for earning that first job. Includes Career Services registration, creation of a usable resume, and exploration of people skills necessary for success. (F, Sp)

B AD 2113 Introduction to Business I**3 Credit Hours**

Designed for non-Business majors. Gives each student a comprehensive introduction to the study of business. Focuses on creation and maintenance of a long-term strategic vision for the firm. Introduces and builds an understanding of the functional business areas such as management, marketing, accounting, finance, and information systems. The concepts learned are essential in managing business activities in an increasingly competitive business world. (F, Sp)

B AD 2970 Special Topics/Seminar**1-3 Credit Hours**

1 to 3 hours. Prerequisite: May be repeated; Maximum credit nine hours. Special topics course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research, and field projects. (Irreg.)

B AD 3013 Integrated Business Core Practicum**3 Credit Hours**

Prerequisite: ACCT 2123 or concurrent enrollment; Corequisite: enrollment in Integrated Business Core (L S 3323, MGT 3013, MKT 3013); Students must be approved for degree candidacy by Price College. Students will apply concepts from the corequisite courses to their own start-up business ventures and to community service projects. (F, Sp)

B AD 3091 Career Readiness II-Advancing in the Workplace**1 Credit Hour**

Prerequisite: Student must be approved for degree candidacy by Price College, junior standing, and B AD 2091. An immersive course designed to explore areas of professional development that will help lead students on a path to a successful career. As an accompaniment to BAD 2091-Business and Professional Basics, this course is designed to further explore areas that will help you, the student, become a more successful, well-rounded business professional as you seek internships and full-time job placement. (F, Sp)

B AD 3113 Managing Corporate Communication**3 Credit Hours**

(Crosslisted with MGT 3113) Prerequisite: Student must be approved for degree candidacy by Price College; ACCT 2123 or concurrent enrollment; MATH 1743 or MATH 1823 or MATH 1914; B C 2813. Strategic Communication challenges students to master their writing, listening, presentation, and interpersonal communication skills to excel in various business environments. Students will also develop strategies to promote customer engagement and loyalty through social media review sites. Emphasis is placed on credibility management, audience analysis, research, revision, and rehearsal to equip students for professional success. (F, Sp)

B AD 3440 Mentored Research Experience**3 Credit Hours**

0 to 3 hours. Prerequisites: ENGL 1113 or equivalent, and permission of instructor. May be repeated; maximum credit 12 hours. For the inquisitive student to apply the scholarly processes of the discipline to a research or creative project under the mentorship of a faculty member. Student and instructor should complete an Undergraduate Research & Creative Projects (URCP) Mentoring Agreement and file it with the URCP office. Not for honors credit. (F, Sp, Su)

B AD 3513 International Business**3 Credit Hours**

Prerequisite: Student must be approved for degree candidacy in the Price College of Business; ACCT 2123 or concurrent enrollment. The nature and economic role of the multinational corporation including the impact of legal, political, educational, sociological, and cultural variables upon firm performance and managerial activity; case studies illustrate managerial, marketing, financial and accounting activities projected across national boundaries. (F, Sp)

B AD 3700 Internship in Business Administration**1-3 Credit Hours**

1 to 3 hours. Prerequisite: student must be approved for degree candidacy by Price College; permission showing approval from the designated faculty or advisor overseeing internships for credit. . (F, Sp, Su)

B AD 3710 Topics in Business Administration**1-3 Credit Hours**

1 to 3 hours. Prerequisite: student must be approved for degree candidacy in Price College of Business. May be repeated; maximum credit nine hours. Permits students to study topics in business administration not included in standard course offerings. Subject of course will vary. (F, Sp, Su)

B AD 3960 Honors Reading**1-3 Credit Hours**

1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to study materials not usually presented in regular courses.(F, Sp, Su)

B AD 3970 Honors Seminar**1-3 Credit Hours**

1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Subjects covered vary. Deals with concepts not usually treated in regular courses. (Irreg.)

B AD 3980 Honors Research**1-3 Credit Hours**

1 to 3 hours. Prerequisite: admission to Honors Program; junior standing. May be repeated; maximum credit six hours. Independent research on special projects. (F, Sp)

B AD 3990 Independent Study**1-3 Credit Hours**

1 to 3 hours. Prerequisite: permission of instructor and junior standing. May be repeated once with change of content. Independent study may be arranged to study a subject not available through regular course offerings. (F, Sp, Su)

B AD 4013 Business Strategy and Policy**3 Credit Hours**

Prerequisite: senior standing and completion of all other College of Business core courses. Administrative decision making with emphasis on analyzing business problems, formulating policies and implementing plans for action; comprehensive cases provide the opportunity to study the proper interrelationships among production, finance, marketing and the many other functions involved in managing a business enterprise. Should be taken in student's final semester. (F, Sp, Su) [V].

B AD 4960 Directed Readings**1-4 Credit Hours**

1 to 4 hours. Prerequisite: good standing in University; permission of instructor and dean. May be repeated; maximum credit four hours. Designed for upper-division students who need opportunity to study a specific problem in greater depth than formal course content permits. (Irreg.)

B AD 4970 Special Topics/Seminar**1-3 Credit Hours**

1 to 3 hours. Prerequisite: Senior standing or permission of instructor. May be repeated; maximum credit nine hours. Special topics or seminar course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research and field projects. (Irreg.)

- B AD 4990 Independent Study 1-3 Credit Hours**
1 to 3 hours. Prerequisite: Senior standing and permission of instructor. May be repeated; maximum credit nine hours. Contracted independent study for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Irreg.)
- B AD 5001 Quantitative Methods and Modeling I 1 Credit Hour**
Prerequisites: graduate standing; departmental permission. Review of important mathematical concepts used in business decision making (emphasis on problem solving). Spreadsheets are used as the principal device for building models. The course covers concepts in the effective spreadsheet design and use. Through development and usage of specific spreadsheets, students will become well-versed in verbalizing, visualizing, forming equations, and calculating answers to key types of business problems. (Irreg.)
- B AD 5010 Foundations of MBA Success 0 Credit Hours**
Prerequisites: departmental permission; graduate standing; majors only. This course provides an orientation to the Price MBA program, and is an essential ingredient for succeeding in the program and beyond. (F)
- B AD 5101 MBA - Professional Development 1 Credit Hour**
Prerequisite: admission to MBA program. Stresses professional development skills. Designed to prepare students for their professional careers and the job search process in particular. Topics include: resume writing, job search and interview, negotiation skills, business etiquette, career decisions, and project and career management. (F)
- B AD 5102 Managerial Economics 2 Credit Hours**
Prerequisites: graduate standing; departmental permission. Microeconomic concepts and analysis as used in managerial decision-making with emphasis on marginal analysis, comparative advantage, resource allocation, opportunity cost, demand and supply, elasticity, economic efficiency, price discrimination, welfare analysis, production and cost functions, productivity, market structures, externalities and public goods, game theory, information asymmetry, market signaling, and government regulation of anti-competitive behavior. (Irreg.)
- B AD 5122 Quantitative Analysis I 2 Credit Hours**
Prerequisite: Graduate standing and departmental permission. This course examines key probability and applied statistical concepts. General course objectives are: 1) enhanced Excel modeling skills; 2) understanding and use of descriptive statistics; 3) basics of probability theory; 4) use and interpretation of various probability models; 5) ANOVA; and 6) regression analysis. Microsoft Excel will be used to illustrate many of these topics. (Irreg.)
- B AD 5172 Business, Government and Society 2 Credit Hours**
Prerequisite: graduate standing, admission into Business graduate program and department permission. Within the study of business, emphasis is placed upon market competition while little attention is paid to "non-market" conditions. Examples of non-market issues include: legislation, lawsuits, etc. Non-market conditions are often reviewed as external events having limited effect upon the strategies of the firm. This course seeks to integrate these concepts/ demonstrate the importance of strategically managing these issues. (Su)
- B AD 5182 Quantitative Analysis II 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and B AD 5122. This course expands treatment of multiple regression analysis and pursues other models and analytical techniques for actionable managerial decision making. Data analysis techniques in the context of Business Intelligence are covered. Specific techniques include multiple regression models and implications of violation of classical assumptions, basic forecasting techniques, linear programming, and optimization and simulation techniques for decision support. (Irreg.)
- B AD 5201 MBA - Professional Development II 1 Credit Hour**
Prerequisite: B AD 5101. This course will enable students to develop critical skills needed to identify, prepare for, and pursue a post MBA career. The course will focus on real-world and practical aspects of the business arena. Students will interact with key business leaders representing a variety of industries and functional areas. (Sp)
- B AD 5202 Career & Professional Development 2 Credit Hours**
Prerequisite: Admission into the Professional MBA or Online MBA Program, Graduate Standing, and Departmental Permission. This course will prepare MBA students for the world of work. This class will enable students to develop the critical skills necessary to identify, prepare for, and confidently pursue a post-MBA career - and ultimately become great business leaders. The course will also focus on real-world and practical skills to succeed in the workplace. (F, Sp)
- B AD 5302 Advanced Leadership 2 Credit Hours**
Prerequisite: Graduate standing and departmental permission. You will explore leadership traits, behaviors, styles, and skills that are important to being an effective leader. We will highlight research in leadership and review important business concepts from business press and books. You will be asked to deeply reflect on your current leadership situation and create an actionable development plan that will move you forward in your leadership career. (Irreg.)
- B AD 5312 Strategic Communication 2 Credit Hours**
Prerequisite: Graduate standing and departmental permission. Strategic Communication challenges students to master writing, listening, presentation, and interpersonal skills to lead in business environments. Students will develop strategies to promote engagement and loyalty with internal and external stakeholders. Emphasis is placed on credibility management, audience analysis, research, revision, and rehearsal to equip students for professional success. (Irreg.)
- B AD 5322 Strategic Leadership & Communication in the Workplace 2 Credit Hours**
Prerequisite: Graduate standing. In today's workplace, the most influential leaders are self-aware, emotionally intelligent, and continuously strive to improve the skills necessary to manage and lead professionally. These leaders are also excellent communicators committed to strengthening their speaking & listening skills. In this course, students will explore methods to improve their ability to lead and communicate effectively at any level of leadership. (Su)
- B AD 5490 Readings in Business Communication and Business Administration 1-3 Credit Hours**
1 to 3 hours. Prerequisite: graduate standing and permission. May be repeated; maximum credit 12 hours. Preparation and submission of a research report on an assigned comprehensive topic relating to the business enterprise or to its ethical environment. (F, Sp, Su)

- B AD 5812 Global Business Experience 2 Credit Hours**
Prerequisite: graduate standing and department permission. The course will focus on a study-abroad experience in a specific country. Students will have in-class instruction prior to and during their trip. Students will visit local and U.S. businesses; interact with and governmental leaders; participate in cultural events and experience local customs and culture; analyze cases involving the country; and, complete a written report. (Irreg.)
- B AD 5822 Business Consulting Practicum 2 Credit Hours**
Prerequisite: graduate standing and department permission. This course applies the "Design Thinking" approach, which relies on rapid action followed by interaction and then reflection, to business consulting projects. It offers an immersive experience to students by using a hands-on, iterative approach to collaboratively solving real world business problems, and may include developing innovative products, processes and services. (Sp)
- B AD 5832 Applied Field Project 2 Credit Hours**
Prerequisite: Graduate standing or department permission. This semester-long course will provide experiential learning in a student's area of specialization and thereby enable them to apply their academic knowledge to real world contexts. Students specializing in different academic areas will be matched with internships in those areas. (F)
- B AD 5902 Strategic Management 2 Credit Hours**
Prerequisite: graduate standing and permission of the department. The study of management decisions and actions to improve an organization's competitiveness in global business environments. Uses a variety of pedagogies to integrate strategies. Students develop skills to formulate, implement, and evaluate organizational strategies in rapidly changing environments. This course is an integrative/cross-functional course. (F, Su)
- B AD 5960 Directed Readings 1-3 Credit Hours**
1 to 3 hours. Prerequisite: graduate standing and permission of department. May be repeated; maximum credit twelve hours. Directed readings and/or literature reviews under the direction of a faculty member. (F, Sp, Su)
- B AD 5970 Special Topics/Seminar 1-3 Credit Hours**
1 to 3 hours. Prerequisite: Graduate standing or permission of instructor. May be repeated; maximum credit nine hours. Special topics or seminar course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research and field projects. (Irreg.)
- B AD 5973 Seminar 3 Credit Hours**
Prerequisite: graduate standing, permission (Director-CBA Graduate Programs). May be repeated with change of topic; maximum credit nine hours. A seminar for graduate students with topics to be announced each time the course is offered. (F, Sp, Su)
- B AD 5980 Research for Master's Thesis 2-9 Credit Hours**
Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)
- B AD 5990 Independent Study 1-3 Credit Hours**
1 to 3 hours. Prerequisite: Graduate standing and permission of instructor. May be repeated; maximum credit nine hours. Contracted independent study for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Irreg.)
- B AD 6243 Applied Univariate Statistics 3 Credit Hours**
Prerequisite: Ph.D. standing or permission of instructor, permission (director-CBA graduate programs). Probability, algebra of expectations, random sampling, sampling distributions, point and interval estimation, tests of hypotheses, parametric and nonparametric, sampling methods, survey design, general linear model, computer applications, statistical analysis system. (F)
- B AD 6960 Directed Readings 1-3 Credit Hours**
1 to 3 hours. Prerequisite: graduate standing or permission of instructor. May be repeated; maximum credit six hours. Directed readings and/or literature review under the direction of a faculty member. (Irreg.)
- B AD 6970 Special Topics/Seminar 1-3 Credit Hours**
1 to 3 hours. Prerequisite: graduate standing or permission of instructor. May be repeated; maximum credit 12 hours. Special topics or seminar course for content not currently offered in regularly scheduled courses. May include library and/or research and field projects. (Irreg.)
- B AD 6980 Research for Doctoral Dissertation 2-16 Credit Hours**
2 to 16 hours. Prerequisites: Graduate standing and permission of instructor; may be repeated. Directed research culminating in the completion of the doctoral dissertation. (F, Sp, Su)
- B AD 6990 Independent Study 1-3 Credit Hours**
1 to 3 hours. Prerequisite: Graduate standing and permission of instructor. May be repeated; maximum credit nine hours. Contracted independent study for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Irreg.)
- B C 2813 Strategic Communication for Business Professionals 3 Credit Hours**
Prerequisite: Business majors or other majors approved by Price College advising; ENGL 1213 or EXPO 1213 or equivalent. Introduces the strategies, processes, and resources necessary for writers in business and professional contexts. Students practice informative and analytical business genres while gaining expertise in research, writing, and revision. (F, Sp, Su)
- B C 3440 Mentored Research Experience 3 Credit Hours**
0 to 3 hours. Prerequisites: ENGL 1113 or equivalent, and permission of instructor. May be repeated; maximum credit 12 hours. For the inquisitive student to apply the scholarly processes of the discipline to a research or creative project under the mentorship of a faculty member. Student and instructor should complete an Undergraduate Research & Creative Projects (URCP) Mentoring Agreement and file it with the URCP office. Not for honors credit. (F, Sp, Su)
- B C 3960 Honors Reading 1-3 Credit Hours**
1 to 3 hours. Prerequisite: Admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)
- B C 3970 Honors Seminar 1-3 Credit Hours**
1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Subjects covered vary. Deals with concepts not usually treated in regular courses. (Irreg.)
- B C 3980 Honors Research 1-3 Credit Hours**
1 to 3 hours. Prerequisite: Admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted Honors candidate to work at a special project in the student's field. (F, Sp, Su)

- B C 3990 Independent Study 1-3 Credit Hours**
1 to 3 hours. Prerequisite: permission of instructor and junior standing. May be repeated once with change of content. Independent study may be arranged to study a subject not available through regular course offerings. (F, Sp, Su)
- EMAD 5302 Accounting in Aerospace and Defense 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, majors only, and admission to the Executive Management in Aerospace/Defense graduate certificate program. This course will create a foundation for understanding accounting and financial management in the Aerospace and Defense (A&D) industry, including performance measurement and budgeting. This course is intended to provide students with a working knowledge of A&D financial statements, including preparation and analysis. This course includes an in-person class at the Gene Rainbolt Graduate School of Business in Oklahoma City. (Irreg.)
- EMAD 5312 Information Technology and Cyber Security in Aerospace and Defense 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and admission to the Executive Management in Aerospace/Defense graduate certificate program. Information technology and cyber security are crucial in managing a business in the aerospace and defense (A&D) industry. This course will provide a basic understanding of the technical and management aspects of data communications, networking infrastructure, and cyber security concepts for A&D. (Irreg.)
- EMAD 5322 Managing Supply Chain and Logistics in Aerospace and Defense 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and admission to the Executive Management in Aerospace/Defense graduate certificate program. Supply chain and logistics are crucial in the aerospace and defense industry. A&D firms are attempting to improve their competitive positions by managing the flow of raw materials, work-in-process inventories, and finished goods. This course covers managing the supply chain that plans, sources, makes, and delivers an A&D organization's goods and/or services, from suppliers of raw materials to customer. (Irreg.)
- EMAD 5332 Legal Environment for Aerospace and Defense 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and admission to the Executive Management in Aerospace/Defense graduate certificate program. This course examines the A&D industry contract vehicles, contract performance management, and regulation management and federal statutory law. Students will learn the legal and ethical environment of A&D business. The course provides necessary background on traditional A&D business law topics, including A&D contracting. This course includes an in-person class at the Gene Rainbolt Graduate School of Business in Oklahoma City. (Irreg.)
- EMAD 5342 Project Management for Aerospace and Defense 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and admission to the Executive Management in Aerospace/Defense graduate certificate program. This course develops the knowledge, skills, tools, and techniques to initiate, plan, execute, monitor, and control activities related to meeting A&D project requirements. It focuses on the theoretical foundations and practical applications of project management along with the IT tools to support project planning, budgeting, scheduling, cost analysis, resource leveling/control, and human resource management in A&D organizations. (Irreg.)
- EMAD 5352 Global Aerospace and Defense Strategy 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and admission to the Executive Management in Aerospace/Defense graduate certificate program. This course develops an innovative mindset to deal with global complexity, barriers to international trade, and human resource challenges. Students are provided with the evidence, concepts, and models for understanding company performance in a global world and the issues facing executives in the early 21st century. (Irreg.)
- EMAD 5362 Field Project in Aerospace & Defense (Analysis) 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, and admission to the Executive Management in Aerospace/Defense graduate certificate program. This course provides experiential learning in the aerospace and defense industry by having students apply knowledge from the classroom and work experience to analyzing problems facing A&D organizations. Field projects will deal with scoping the problem under study, structured analysis of the problem including data collection from internal and external sources, and development of recommendations, solutions, and timeline for implementation. (Irreg.)
- EMAD 5372 Field Project in Aerospace & Defense (Implementation) 2 Credit Hours**
Prerequisite: Graduate standing, departmental permission, admission to the Executive Management in Aerospace/Defense graduate certificate program, and B AD 5362. This course provides experiential learning in the aerospace and defense industry by having students apply their knowledge from the classroom and their work experience to implement solutions and recommendations developed in B AD 5362 or those provided by the client organization. They will also include the development of a prototype, a pilot implementation of the solutions, and outcome testing. (Irreg.)
- EMAD 5382 Quantitative Methods & Models for Aerospace & Defense 2 Credit Hours**
Prerequisite: Graduate standing and departmental permission, or admission into the Executive Master of Business Administration in Aerospace & Defense program. This course focuses on understanding and applying quantitative methods and models in the context of Aerospace & Defense (A&D). The course content is organized around three modules: summarizing quantitative data, relating and comparing data, and predicting outcomes based on sample data. The topics covered in these modules include descriptive statistics, associative statistics, regression, multiple regression, and inferential statistics. (Irreg.)
- EMAD 5392 Organizational Behavior in Aerospace & Defense Organizations 2 Credit Hours**
Prerequisite: Graduate standing and departmental permission, or admission to the Executive Master of Business Administration in Aerospace & Defense program. This course deals with the need for managers to understand behavior in organizations and the challenges they face. It discusses individual differences, employee motivation, and effective job design, and how organizations should select, retain, and evaluate employees. The course discusses group dynamics, team management, effective communication, managing conflict, employee stress, and career management issues. (Irreg.)

EMAD 5402 Aerospace and Defense Marketing Fundamentals 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission into the Executive Master of Business Administration in Aerospace & Defense program. The traditional role of marketing management is enlarged to include the development, implementation, and control of marketing strategies in the aerospace/defense organization. Emphasis is on the strategic marketing process in the dynamic aerospace/defense business environment. Strategic marketing decisions, analysis, and issues are integrated with the goal of achieving customer satisfaction to gain a sustainable competitive advantage within the aviation industry. (Irreg.)

EMAD 5412 Innovation and Entrepreneurship in Aerospace & Defense 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission into the Executive Master of Business Administration in Aerospace & Defense program. This course introduces skills and techniques that enable the development of innovative and entrepreneurial strategies in aerospace and defense. We also evaluate approaches to developing an innovative, entrepreneurial culture in environments where science- and technology-related activities are critical for effective operations. The course will analyze the challenges posed by complex organizations and highlight methods to deal with them. (Irreg.)

EMAD 5422 Lean Six Sigma Tools for Aerospace & Defense 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission to the Executive Master of Business Administration in Aerospace & Defense program. The course introduces the fundamental Lean Six Sigma concepts within a business organization. It covers the basic concepts within Six Sigma and Lean techniques, and introduces tools for measurement and process improvement metrics in organizations through the DMAIC process. The course has a strategic foundation in which we review the strategic use of techniques, ensuring a positive result upon implementation. (Irreg.)

EMAD 5432 Advanced Financial Management in Aerospace & Defense 2 Credit Hours

Prerequisite: Graduate standing, EMAD 5302 and departmental permission, or admission into the Executive Master of Business Administration in Aerospace & Defense program. This is a comprehensive course in corporate financial management and analysis. The course builds on the main concepts of the core Accounting course (EMAD 5302). The primary objective is to develop the skills necessary to value firms and optimize a corporation's capital structure in the Aerospace and Defense Industry using varying finance methods. (Irreg.)

EMAD 5442 Mergers and Acquisitions in Aerospace and Defense 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission into the Executive Master of Business Administration in Aerospace & Defense program. This course studies the design and valuation of deals to acquire or divest corporate assets. We study M&A transactions, applying them to the aerospace and defense industry through case-based methods. We explore how the legal system, accounting rules, and tax incentives affect outcomes of M&A transactions. We analyze types of M&A transactions, their motivations, and their effects on corporate value. (Irreg.)

EMAD 5452 Managing Aerospace & Defense Government Contracts 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission into the Executive Master of Business Administration in Aerospace & Defense program. This course introduces the procurement and contracting processes used in the aerospace and defense (A&D) industry. Students will gain an understanding of best practices from both government and industry perspectives, including subcontracting. The course will navigate the highly complex federal acquisition process including governance and operational roles. The course emphasizes government contracting but also discusses private sector contracting in A&D. (Irreg.)

EMAD 5472 Data Management and Security in Aerospace & Defense 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission to the Executive Master of Business Administration in Aerospace & Defense program. Every organization is concerned with data management. Data must be stored effectively and securely so it can be retrieved to support decision making. These issues are particularly relevant for the A&D industry, an environment where extra measures must be taken in all aspects of security. The objective is to provide a basic understanding of data management and security. (Irreg.)

EMAD 5482 Data Analytics for Aerospace & Defense 2 Credit Hours

Prerequisite: Graduate standing and departmental permission, or admission to the Executive Master of Business Administration in Aerospace & Defense program. Data analytics is becoming increasingly important for every industry, and it is especially important in the aerospace and defense (A&D) industry. The objective of this course is to provide a basic understanding of data analytics in A&D. (Irreg.)

EMAD 5602 The Future of Space 2 Credit Hours

Prerequisite: Graduate Standing and Departmental Permission. This course focuses on the future of a commercial space application, the history of manned and unmanned space flight, and recent commercial ventures in space along with new innovations in the realm of possibility as space travel and launches are becoming more accessible. The course will also look at political developments and the current business climate for space. (Irreg.)

EMAD 5622 Space and Small Business: Business Opportunities in the Space Economy 2 Credit Hours

Prerequisite: Graduate Standing, Majors Only, and Departmental Permission. This course examines the current status and evolving nature of business opportunities in the expanding commercial space sector. Once the domain of governments and large aerospace and communications corporations, the space economy is now ripe with opportunities for new entrants. The course will survey the large-scale trends and dynamics driving this renaissance. (Irreg.)

EMAD 5642 Private Equity and Investment in Space 2 Credit Hours

Prerequisite: Graduate Standing and Departmental Permission. With the declining cost of sending payload into lower orbit, many new startups are forming around the concept of commercializing space. This course reviews the basics of setting up term sheets for new ventures and presents real opportunities to pitch their new venture to tap into this new market. (Irreg.)

EMAD 5960 Directed Readings 1-3 Credit Hours

1 to 3 hours. Prerequisite: graduate standing and permission of department. May be repeated; maximum credit twelve hours. Directed readings and/or literature reviews under the direction of a faculty member. (F, Sp, Su)

- EMBA 5012 Energy Policy and Regulations 2 Credit Hours**
Prerequisite: graduate standing, EMBA students only. Examines U.S. and global energy policy and regulatory development emphasizing: resource access, business-government relations, environmental protection, social responsibility, and sustainability. Topics explored from the perspectives of government, business, citizens and civil society stakeholder groups, emphasizing unique positions of entities in the various major energy-producing regions and energy users in the U.S. and worldwide. (Irreg.)
- EMBA 5021 Energy Technology and Innovation 1 Credit Hour**
Prerequisite: Graduate standing and EMBA majors only. The energy sector is developing and deploying scalable innovative technologies to navigate the energy transition landscape by reducing greenhouse gas emissions, making a lower carbon future for hydrocarbons, improving energy security, and providing access to energy to communities that previously lacked it. This course provides a broad overview of such technologies and innovations. (Irreg.)
- EMBA 5022 Introduction to Energy Accounting 2 Credit Hours**
Prerequisite: Graduate standing and EMBA majors only. This course uses concepts from financial accounting and managerial accounting and applies them to specific reporting issues in the energy industry as well as presentation of the information on the financial statements of an oil and gas company. Reviews the accounting cycle with an emphasis on the proper accounting treatment of energy-related activities, actions (e.g., acquisition of mineral interests). (Irreg.)
- EMBA 5031 Organizational Behavior 1 Credit Hour**
Prerequisite: graduate standing, EMBA students only. Designed for students who wish to occupy leadership and managing positions in the energy industry and increase their understanding of individual behavior in organizations. It explores theories and concepts of organizational behavior to address managerial problems. Topics include: management challenges; evidence-based management; managing diversity; motivating, evaluating, and rewarding employees; and creating a positive work environment and achieving personal well-being. (Irreg.)
- EMBA 5042 Energy Economics 2 Credit Hours**
Prerequisite: graduate standing, EMBA students only. Economic concepts and analysis used in managerial decision-making in energy companies with emphasis on demand, supply, market equilibrium, elasticities, perfect competition, external effects and public goods, market power and monopoly, natural monopolies, economic regulation, market dominance, merger clearance, cartels, collusion and antitrust, oligopolistic markets, GDP, unemployment, inflation, monetary and fiscal policies, and the interrelations among different sectors of the economy. (Irreg.)
- EMBA 5052 Financial Markets and Securities 2 Credit Hours**
Prerequisite: graduate standing, majors only. During this course, you'll obtain a strong foundation for an understanding of financial markets and the main types of securities traded in these markets. The course topics include trading structure, risk and return, portfolio theory, asset pricing models, market efficiency and an introduction to the nature and valuation of equities and bonds, and an overview of technical concepts. (Irreg.)
- EMBA 5062 Quantitative Methods and Models 2 Credit Hours**
Prerequisite: graduate standing, EMBA students only. The purpose of this course is to understand and apply quantitative methods and models in the context of energy management. This course is organized to develop the student's ability to: 1) summarize, 2) compare, and 3) predict outcomes based on sample quantitative data. The topics covered in course modules include descriptive statistics, associative statistics, inferential statistics, and multiple regression analysis. (Irreg.)
- EMBA 5082 Strategic Management 2 Credit Hours**
Prerequisites: graduate standing, EMBA students only. Examines management decisions and actions to improve an organization's competitiveness in global business environments. Uses a variety of pedagogies to integrate strategies, and students will develop skills to formulate, implement, and evaluate organizational strategies that play across the energy industry in rapidly changing environments. (Irreg.)
- EMBA 5091 Accounting II 1 Credit Hour**
Prerequisite: Graduate standing, EMBA 5022, and EMBA majors only. This course will cover Financial Accounting Standards Board (FASB), Generally Accepted Accounting Principles (GAAP), and Securities and Exchange Commission (SEC) financial statement disclosures specific to entities engaged in oil and gas producing activities (referred to as Upstream Entities), accounting for derivatives, and tax issues affecting the energy industry. (Irreg.)
- EMBA 5111 Management Information Systems 1 Credit Hour**
Prerequisites: graduate standing, EMBA students only. Managers in energy organization need to understand the pathways for improving performance through IT-enablement and to be active participants in decisions regarding investing in and implementing IT-enabled business solutions and supporting infrastructures. This course provides student with an awareness and understanding of the technologies and issues they are likely to confront in their roles as managers in an energy organization. (Irreg.)
- EMBA 5112 Data, Analytics and Decision-Making 2 Credit Hours**
Prerequisite: Graduate standing and EMBA majors only. Develops skills in data analytics including managing data resources, techniques for analysis, visualization, security and privacy, and data-driven decision-making. Particular attention is paid to disruptive technologies, governance, and organizational issues in deepening analytics capabilities in the energy industry. (Irreg.)
- EMBA 5131 Renewable Energy Resources 1 Credit Hour**
Prerequisite: Graduate standing and EMBA majors only. Considers interest in renewable energy from the view that meeting global energy demand is "all of the above." Examines traditional energy firms possibly adding alternative energy to its offerings. Provides student with a broad overview of how renewable energy affects markets today, renewable energy technology, and its cost effectiveness compared to other energy sources and its future penetration rate projections. (Irreg.)
- EMBA 5141 Supply Chain Management 1 Credit Hour**
Prerequisite: Graduate standing, EMBA students only. Historically, energy supply chain mainly involved moving products from refineries to customers. Now it is expected to improve performance and manage supply and demand across areas such as strategic sourcing, platform construction, plant maintenance and reliability, storage, etc. This course explores hydrocarbon and renewable energy value chains and provides a foundational knowledge of the intersections of supply chain and energy. (Irreg.)
- EMBA 5142 Derivatives and Energy Trading 2 Credit Hours**
Prerequisite: Graduate standing and EMBA majors only. Provides a comprehensive review of the organization and structure of the market for energy assets and commodities. Topics include trading platforms, pricing issues, forecasting, role and linkage with associated futures, forwards and options contracts, "basis" and spreads, hedging strategies, the principles governing the valuation of these "derivative" securities, and the ways in which these securities can be used effectively. (Irreg.)

EMBA 5152 Derivative Securities and Markets 2 Credit Hours

Prerequisites: graduate standing, EMBA students only. Develop an understanding, both intellectual and practical, of the organization and micro-structure of the markets for forward, futures, and options contracts, the principles governing the valuation of these "derivative" securities, and the ways in which these securities can be used effectively in investment banking, portfolio management, hedging, and risk management. Particular attention is paid to energy derivatives and the perspective of the energy sector. (Irreg.)

EMBA 5162 Energy Assets and Commodities Trading 2 Credit Hours

Prerequisites: graduate standing, EMBA students only. Provides a comprehensive and in-depth review of the market for energy assets and commodities: including trading platforms, pricing issues, forecasting, role and linkage with associated futures, forwards and options contracts, study of "basis" and spreads, and hedging strategies. The course will be anchored solidly within a theoretical conceptual framework and be supported with relevant case studies. (Irreg.)

EMBA 5182 Enterprise Valuation, Mergers and Acquisitions, and Corporate Restructuring 2 Credit Hours

Prerequisite: graduate standing, EMBA students only. The course covers major aspects of M&A and other corporate restructuring transactions; reasons that deals are done, the mechanics of the transactions, the valuation of the firms involved, various aspects of deal structure, the roles and incentives of the parties involved, and related issues. Brings together materials from previous finance courses and links financial decision-making with firm's overall business strategy. (Irreg.)

EMBA 5191 Marketing Strategy – Changing Energy Mix and New Markets 1 Credit Hour

Prerequisite: Graduate standing and EMBA students only. Covers the challenges faced by the energy industry in developing new markets for its products, and how to manage customer and client relations. Students will learn practical marketing tools and how they can be used to affect corporate strategy. Topics include the strategic marketing process, oil, gas and NGL valuation, market segmentation, supply chain and logistics, pricing mechanisms and hedging. (Irreg.)

EMBA 5201 Managing Change – Role of Leadership 1 Credit Hour

Prerequisite: Graduate standing, EMBA students only. Provides a theoretical understanding and skill development necessary for being an effective leader and manage organizational change. Identify ways to become a more effective leader by applying theories of human behavior to solve day-to-day problems of organizational administration. Examines core decision-making challenges, complex change scenarios, and leadership approaches and strategies to manage change in the context of the energy industry. (Irreg.)

EMBA 5212 Valuation of Hydrocarbon Resources 2 Credit Hours

Prerequisite: Graduate standing, majors only. This course brings together concepts to make better economic decisions in projects and industry. It examines ways to evaluate the economic viability of an investment opportunity and develops skills to make these evaluations. The participants perform evaluations of field development projects and practice negotiation skills to create value for an acquisition/divestment. (Irreg.)

EMBA 5222 Corporate Energy Finance 2 Credit Hours

Prerequisite: Graduate standing, EMBA students only. Provides students with the analytical and conceptual skills required in the modern practice of corporate financial management in energy organizations. Will focus on three key areas: (1) optimal allocation of capital; (2) optimal choices for raising capital; (3) optimal management of risk in conjunction with (1) and (2), including measuring and managing risks in energy companies. (Irreg.)

EMBA 5232 Hydrocarbon Law and Regulations 2 Credit Hours

Prerequisite: Graduate standing, majors only. This course is an introduction to energy policy, law, and regulation, covering some basics in both contract and property law and how to critically read and brief cases. While hydrocarbon law is a major focus, other energy resources and how the multiple energy markets can affect each other are explored. Policies for balancing energy needs with environmental protection are examined. (Irreg.)

EMBA 5242 Reserve Valuation and Reporting 2 Credit Hours

Prerequisites: graduate standing, EMBA students only. Key objectives are learning compliant methods of preparing reserves/resources estimates, learning to estimate and understand the composition of and variables to the estimates, understanding the impact of economics on those estimates, properly classifying those estimates using current industry accepted definitions, and understanding the use of reports. Will discuss utilizing a reserves report as the basis for company modeling projections. (Irreg.)

EMBA 5251 Electric, Gas & Utility Fundamentals 1 Credit Hour

Prerequisite: Graduate standing and majors only. This course covers material on basic concepts, terms, and the integration of primary functions in electric utility systems, including an overview of the utility regulatory environment and markets, general business model of regulated and unregulated utilities, and electric generation options and economic dispatch. (Irreg.)

EMBA 5261 Energy and Environment 1 Credit Hour

Prerequisite: Graduate standing and EMBA majors only. An introduction to the global energy industry's past, present, and future, along with the history and current issues/challenges that different regions face. The course provides a broad look at the fundamentals (resources, politics, culture, regulatory, and legal framework, plus environmental issues) that impact world energy supply and demand. (Irreg.)

EMBA 5271 Energy and Environment II 1 Credit Hour

Prerequisite: Graduate standing, EMBA 5261, and EMBA majors only. Introduces energy system from an environmental and human health perspective, and the industry's social license to operate. Examines energy supply and use, its environmental and human health impact and mitigating factors. Discusses energy system organization: how we got here, how it operates, feasible paths going forward, and how to leverage forces of change for a more sustainable energy future. (Irreg.)

EMBA 5281 Introduction to Energy Systems I 1 Credit Hour

Prerequisite: Graduate standing and EMBA in Renewables majors only. This course is designed to help understand the earth's energy system and the potential impact of human activity by providing a broad understanding of the current energy system, its challenges, particularly with respect to the environment, and possible paths to a sustainable energy future. (Irreg.)

- EMBA 5291 Electric Power Systems 1 Credit Hour**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course discusses power systems and environmental consequence, electric circuit theory, principles and practices of the electrical power industry. The course provides an understanding of how, in an electricity grid, power generation and power consumption are closely matched; integrating renewable energy resources into the grid; and the business model of regulated and unregulated utilities, generation options, and economic dispatch. (Irreg.)
- EMBA 5301 Transportation and Residential, Commercial & Industrial Energy Systems 1 Credit Hour**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course covers the technical and economic structure of energy consumption, and the drivers of energy demand in the transportation, residential, commercial and industrial sectors, which define the set of services that can be supplied by renewable sources in each sector. (Irreg.)
- EMBA 5312 Introduction to Accounting for Renewable Energy 2 Credit Hours**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course provides an understanding of the accounting cycle with emphasis on the proper accounting treatment of renewable energy activities; uses accounting concepts and applies them to specific reporting and decision-making issues in renewables; and discusses the analysis and presentation of financial statement information for renewable energy companies and cost systems analysis for product costing, decision making, and cost management. (Irreg.)
- EMBA 5322 Managing Change in Renewables - Strategy and Leadership 2 Credit Hours**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course provides an understanding of the implementation of major strategic organizational changes and the fundamental leadership theories and management practices associated with managing change within the energy industry, providing participants with the necessary framework and tools to effectively lead organizational changes, with attention placed on the human side of change and how to plan for and manage change accordingly. (Irreg.)
- EMBA 5331 Accounting for Renewable Energy 1 Credit Hour**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course will cover advanced financial topics for renewable energy companies, such as financial statement disclosures specific to entities engaged in renewable energy, depreciation and depreciation reserves, accounting for derivatives, and tax equity and tax benefits for renewable energy industry. (Irreg.)
- EMBA 5341 Cyber-Physical Security and Resilience for Energy 1 Credit Hour**
Prerequisite: Graduate standing and majors only. This course covers introductory topics in cyber-physical systems security, provides a layered perspective of the energy industry, and provides an overview of the interactions among system components and the interaction between external forces and the system, breaches and enforcement, standardization, best practices, policies, privacy, and legal issues. (Irreg.)
- EMBA 5351 Renewable Energy Law and Regulations 1 Credit Hour**
Prerequisite: Graduate standing and majors only. The course will be an introduction to the legal framework governing renewable energy project development and operation, including regulatory and commercial issues facing various stakeholders. (Irreg.)
- EMBA 5361 Introduction to Energy Systems II 1 Credit Hour**
Prerequisite: Graduate standing, EMBA 5281, and EMBA in Renewables majors only. This course provides a framework for thinking about why energy-related events are happening in the world, what they may mean for future energy use and by extension societal and environmental well-being, and how we might improve our current energy system moving forward. (Irreg.)
- EMBA 5371 Data Analytics and Digitization 1 Credit Hour**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course provides a broad-based introduction to the use of data science for understanding sustainability problems and energy systems. Course materials will address developing a foundational understanding of terminology, methods, applications, and tools that are employed across all energy sectors, with emphasis on renewable energy. (Irreg.)
- EMBA 5381 Renewable Energy Project Development: Forecasting 1 Credit Hour**
Prerequisite: Graduate standing and majors only. All major stakeholders associated with a renewable energy project must rely on many different types of forecasting. Generating accurate forecasts is critical to reducing the uncertainty and risks associated with intermittent resources. This course will provide an overview on how different types of forecasts inform project decisions, both from a project development and operational perspective. (Irreg.)
- EMBA 5391 Renewable Energy Project – Business Plan 1 Credit Hour**
Prerequisite: Graduate standing and EMBA in Renewables majors only. This course provides an overview of preparing a business plan for a renewable energy project and how to evaluate renewable energy project financing and investment opportunities, with particular emphasis on intermittent technologies like solar and wind. (Irreg.)
- EMBA 5402 Renewable Energy Project – Develop, Implement, and Manage 2 Credit Hours**
Prerequisite: Graduate standing and EMBA in Energy majors only. The course will follow the progression of the development of an energy project, from early-stage site and offtake development issues, through construction and project financing, through operation. Teams determine which renewable energy they want to focus on and develop business propositions accordingly. (Irreg.)
- EMBA 5403 Renewable Energy Project (Capstone) 3 Credit Hours**
Prerequisite: Graduate standing and EMBA in Renewables majors only. The course will follow the progression of the development of an energy project, from early stage site and offtake development issues through construction and project financing through operation. Teams determine which renewable energy they want to focus on and develop business propositions accordingly. (Irreg.)
- EMBA 5412 Carbon Management: Strategies and Steps 2 Credit Hours**
Prerequisite: Graduate standing and EMBA in Energy majors only. Carbon footprint is the amount of carbon dioxide, or Greenhouse Gas Emissions, that organizations contribute to the environment. This course is on developing and implementing a long-term carbon management plan to provide an organization with strategies and steps that will help prepare the organization for the physical and economic risks of climate change, remaining competitive in a low carbon economy. (Irreg.)

EMBA 5421 ESG and Sustainability 1 Credit Hour

Prerequisite: Graduate standing and EMBA in Energy majors only. Sustainability factors are part of the fundamentals needed to attain higher returns, organizational resilience, and stakeholder trust. Environmental, social, and governance (ESG) risks have gained increasing attention, and organizations are seeking to proactively manage and report on their ESG risks. This course will provide an understanding of ESG and how to implement sustainable ESG requirements. (Irreg.)

EMBA 5431 Financing Hydrocarbon Projects 1 Credit Hour

Prerequisite: Graduate standing and majors only. This course is designed to teach students how to finance hydrocarbon projects and to provide an understanding of the steps involved in valuation, financing, structuring a deal, addressing carbon footprint issues, and packaging for presentation for securing investments. (Irreg.)

EMBA 5441 Renewable Energy Technology and Innovation 1 Credit Hour

Prerequisite: Graduate standing and EMBA in Energy majors only. Innovations in renewable energy encompass all new approaches that help to overcome barriers and result in accelerated deployment of renewables supporting the energy transition. Innovation powers the ongoing transformation of the global energy system. This course provides a broad overview about energy-related innovation and technology issues, and what they may mean for the future of energy and energy transition. (Irreg.)

EMBA 5451 Renewable Energy Project Valuation 1 Credit Hour

Prerequisite: Graduate standing and EMBA in Energy majors only. This course introduces valuation concepts and the main factors affecting the valuation of a broad range of renewable energy assets, projects, and business enterprises. (Irreg.)

EMBA 5462 Introduction to Energy Systems 2 Credit Hours

Prerequisite: Graduate Standing and EMBA in Energy majors only. The course covers different forms of energy and their production/technology, distribution, and consumption, and evaluates current hydrocarbon and renewable energy systems to integrate them into a single energy system. This course also provides an overview of the hydrocarbon value chain as well as the function and organization of electric power systems, focusing on generation, transmission, distribution, and consumer segments. (Irreg.)

EMBA 5471 Path to Net Zero 1 Credit Hour

Prerequisite: Graduate Standing and EMBA in Energy majors only. In support of broader efforts to address climate change, companies are increasingly pledging to reach net-zero emissions as part of their business strategies. To reach their target, companies need to make changes. This course provides a framework for companies to drive transformational changes and strategically address the challenges to a net zero-world. (Irreg.)