The Energy certificate within the MBA program consists primarily of high-end finance courses. Coursework focusing on derivative securities and markets, energy accounting and regulation, energy assets and commodities, and energy corporate finance prepares students to manage key issues and implement thoughtful, long-term solutions to meet the increasing demand in this capital-intensive business.

With instruction from internationally recognized faculty and current professionals in the industry, site visits to oilrigs and gas processing plants, and simulated trading, Oklahoma MBA students emerge as effective leaders in the ever-changing and challenging worldwide energy industry.

**Required Courses:**

**ENGB 5131 | Energy Upstream/Downstream** (must be an MBA student)
Students will gain an understanding of the operations and economics of the upstream and downstream sector in most of its aspects: ownership and fiscal agreements, players, reserves, prospect and play analyses, investments, costs, etc.; oil products transportation, distribution and refining, product pricing, natural gas chain/market structures, etc.

**ENGB 5142 | Introduction to Energy** (prerequisite ENGB 5131)
Graduate standing in Price College of Business. Provides a broad look at the fundamentals (political, cultural, regulatory, weather, legal and environmental) of world energy supply and demand, detailed study of the complete value chain for all commodities including a look at existing and emerging strategies for refining and marketing power options, and an understanding of the technology drivers for the energy industry and the roles of various energy professionals.

**FIN 5322 | Derivative Securities and Markets** (prerequisites ENGB 5131, ENGB 5142, FIN 5302)
Derivative securities, such as futures, forwards, option, and swaps are studied and analyzed along with their uses in investments, banking, portfolio management, and risk management by non-financial businesses. We will study how futures, swap, and option contracts are constructed, how they are valued and how they are used for speculation, hedging, and risk management. Particular attention is paid to energy derivatives and especially natural gas derivatives.

**ENGB 5152 | Energy Accounting and Regulation** (prerequisites ENGB 5131, ENGB 5142)
Provides an overview of (A) federal and state regulatory law in the US affecting natural gas and oil producers and developers, interstate and intrastate pipelines, gas and power marketing companies, and power generating and transmission companies, and (B) the major accounting and tax issues affecting the energy industry.

**ENGB 5172 | Energy Assets & Commodities: Financial Instruments, Pricing & Trading** (prerequisites ENGB 5131, BAD 5142, FIN 5302 & FIN 5322)
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.
**ENGB 5162 │ Energy Corporate Finance** (prerequisites ENGB 5131, ENGB 5142, FIN 5312 & FIN 5322)
Provides students specialized knowledge of the corporate finance of firms in the energy sector. Provides an integrated perspective on assessing and financing energy projects, corporate risk management in the energy industry, and issues pertaining to mergers, acquisitions and restructuring in energy firms. While the course will be rigorous and solidly grounded in theoretical concepts, it will provide a thoroughly applied perspective on topics covered by the use of case studies and other hands-on learning opportunities.

**ENGB 5182 │ Valuation, Mergers & Acquisitions, and Divestures** (completion of core MBA courses and all other energy specialization requirements)
Mergers & Acquisitions result in unified, cohesive new organizations whose financial and strategic options are greatly improved. The course covers divestures and the entire M&A continuum from valuation, through post-merger integration for energy companies. It provides the tools, templates, and proven techniques managers need to efficiently combine different processes and organizations, and cultures. The course presents and examines the latest case studies and research findings in the energy industry.