

**Inventory of Sustainability Courses**  
**A.B. Freeman School of Business**  
**Courses Offered Fall 2012-Spring 2014**

**Tulane University**

“Sustainability education” engages students in the work of building healthy, lasting communities. In sustainability courses, students develop the capacity to critically theorize, analyze and communicate about interconnected social, economic and environmental issues. Students learn to work in collaboration with members of the larger community and to help create solutions in the long-term public interest.

We have attempted to identify both courses in which the primary and explicit focus is on sustainability and/or on understanding or solving one or more major sustainability challenge, and courses that are primarily focused on a topic other than sustainability but incorporate sustainability as unit, module or activity.

We have included courses that have a service learning component.

At Tulane University, undergraduate courses are numbered between 1000-4999 and graduate-level courses are numbered 5000 and above.

This draft list was compiled by Jiaxin Fan (MFIN – 2014) and Luis Fernandez Rodriguez (exchange undergraduate student) by reviewing the Tulane BS Undergraduate Course Catalog and MBA/MFIN/MMG/MACCT Student Handbook posted at <http://www.freeman.tulane.edu/students/>. Service Learning courses added by Colleen Large (SLA – 2016) from lists obtained from Center for Public Service. The draft list was sent to Dean Ira Solomon for review in June 2014.

## **ACCOUNTING AND TAXATION**

- **Sustainability courses:** No sustainability courses offered.

## **ENERGY**

- **Sustainability courses:**
  - **ENRG 4410 Energy and Environmental Economics**– This course provides an overview of the economic principles used in analyzing energy markets and environmental issues important to this sector. Students in this class will learn to apply fundamental tools of micro and macro-economics to study business and public policy issues involved in the oil, natural gas, and electric industries including renewable energy sources. The course will cover the fundamentals of externalities in the energy industries and how to evaluate the impact of various environmental policies. They will evaluate incentive compatible mechanisms and efficient environmental regulation design. Students will study a number of industry specific cases and critically analyze typical problems in each industry. Students will apply economic reasoning to unravel popular fallacies and doomsday

scenarios such as peak oil, fallacy of common-use resources, technical vs. economic potential of energy technologies.

○ **Courses that include sustainability:**

- **ENRG 4930 Introduction to Electric Power & Markets**– The number of players in power markets, player’s competing interests, and evolving regulatory policy gives electricity markets a unique niche in the world of commodity trading. The unique physical characteristics of its product, coupled with the nature of its delivery have created opportunities for trading shops and major corporations to rise and fall in a little more than a decade. As this market (slowly) matures, and regulation continues to improve market transparency and efficiency, it will be a bumpy ride. To better understand where these markets are going and where they have been, we shall first obtain a historical perspective. With a concrete understanding of the market evolution, we will then investigate what influence market prices on a long term, day ahead, and real time basis. We will also study the infamous market failures, and how regulators have responded to eliminate opportunities for indiscretion. The course will conclude with a brief look at several recent regulatory enactments to more closely align the interests of all market participants and stakeholders. This course will include market simulation exercises which will give students the opportunity to experience Power Marketing from the perspectives of a pure-marketer, independent power producer, and regulated utility.
- **ENRG 6010 Introduction to Energy Fundamentals** – This course introduces basic energy production, transportation, refining, marketing, and trading activities. This course is designed to teach students, regardless of background and experience, basic concepts and energy terminology that form a basis for further learning in energy courses. In this one-day seminar, students learn energy industry fundamentals affecting companies involved with the exploration, production, transportation, refining, and storage of oil and gas and other related industry segments.
- **ENRG 7100 Energy Markets, Institutions, and Policy**– This course covers a range of energy-related topics including major challenges and policy issues facing the industry, history and structure of the industry, company profiles and strategies, energy economics, energy markets, energy regulation, energy technology, and sustainable development. Faculty associated with the Tulane Energy Institute will lecture on the history, structure, and economics of the energy sector and its importance in the growth of modern economies. The course also includes a series of presentations by industry participants including energy economists, sell-side analysts, industry regulators, upstream oil and gas operators, midstream and downstream participants, as well as representatives of the myriad companies that provide services to the direct participants.
- **ENRG 7130 Energy and Environmental Economics** – Prerequisite: ENRG 6000. This course provides an overview of the economic principles used in analyzing energy markets and environmental issues important to this sector. Students in this class will learn to apply fundamental tools of micro and macro-economics to study business and public policy issues involved in the oil, natural gas, and electric industries including renewable energy sources. The course will also cover the fundamentals of externalities in the energy

industries and how to evaluate the impact of various environmental policies. They will evaluate incentive compatible mechanism and efficient regulation design. The course goal is to have students critically analyze typical problems in the energy sector. They should be able to apply these skills and economic reasoning to unravel popular fallacies and doomsday scenarios such as peak oil, fallacy of common-use resources, and technical vs. economic potential of energy technologies.

- **ENRG 7500 Energy Risk Management** – Prerequisites: ENRG 7110, ENRG 7120, and ENRG 7200. The course balances both the qualitative and the quantitative aspects of the risk in energy markets. The course begins with a broad qualitative look at risk scenarios. For a qualitative perspective, the course draws heavily from Foundations of Energy Risk Management (FERM) and from Managing Energy Risk (MER). For the quantitative aspects such as forwards, MR Models and options, the course relies primarily on Energy and Power Risk Management (EPRM) and Energy Risk (ERVM). Topics covered include the economic impacts of pricing and investment decisions in these industries, privatization of publicly-owned energy assets, regulation of monopolies and antitrust, the transportation and storage of energy commodities, and the economics of renewable energy sources. Major policy trends related to energy production and use, such as deregulation, climate change, and environmental impacts, are critically analyzed. The course focuses on risk management applications from the perspective of an energy company.
- **ENRG 7600 Electricity Markets and Trading** – Prerequisite: ENRG 6000. This course covers the fundamental concepts necessary to maintain and operate an efficient wholesale electric power market. Through in-class simulations, students will apply concepts from operations management, economics, risk management, and negotiations to manage physical and financial power portfolios. Lecture topics will include deregulation/industry segmentation, security constrained economic dispatch (including unit commitment and scheduling), locational marginal pricing, resource development (including traditional thermal and renewable resources), and contract negotiation. Instructor-led case studies will review historic successes and failures of deregulated energy firms. Successful completion of this course will provide students with a firm understanding of electric power market operations and portfolio management.
- **ENRG 7920 Energy Seminar (3)** – This course covers energy topics that are not covered extensively in other energy courses. The course may cover a range of topics depending upon the faculty member's interests and the availability of guest speakers. Possible topics include investment banking, energy policy, energy legal and regulatory environment, emerging technologies, energy industry structure and analysis, sustainable development, and energy strategy.

## **FINANCE AND BUSINESS ECONOMICS**

- **Sustainability courses:** No sustainability courses offered.
- **Courses that include sustainability:**
  - **FINE 4890 Financial Literacy Service Learning-** Students may elect to fulfill their upper-level Newcomb-Tulane public service requirement through this

service learning option that functions as an add-on component to FINE 4100 or FINE 4600. This added one-hour component supplements the finance curriculum and gives students the opportunity to research, prepare and teach core elements of financial literacy to high school students who live in the New Orleans community. Students are required to fulfill 40 hours of public service. The 40 hours of public service includes preparation of lesson plans, lab meetings with reflection, and classroom experiential teaching in a high school class environment.

## **LEGAL STUDIES IN BUSINESS**

- **Sustainability courses:** No sustainability courses offered.
  
- **Courses that include sustainability:**
  - **LGST 3010 Legal, Ethical and Regulatory Environment of Business -** Prerequisites: ECON 1010; LGST 3010 examines ethical and legal issues that affect business decision-making. The course covers ethical decision making, including the concepts of professionalism, integrity-based management, compliance-based management, and corporate social responsibility. The course then focuses on the ethical and legal issues associated with the legal system, the litigation process, alternative dispute resolution techniques, business torts based on negligence, intent and strict liability, including fraud, product liability, misrepresentations, and misleading advertising, contracts, consumer protection issues, business crimes, bankruptcy, labor and employment law, laws surrounding equal opportunity, and property law, including patents, copyrights, trade secrets, trade names, and trademarks. (Service Learning- Optional, Fall 2013, Fall 2012)
  - **LGST 3890 Legal Studies -** Freeman students may elect to fulfill their upper-level Newcomb-Tulane public service requirement through this service learning option that functions as an added component to the foregoing legal studies courses. This added one-hour component supplements the legal studies curriculum and gives students the opportunity to become familiar with courtroom procedure while acquiring research, investigation, and analytical skills through courtroom observation and data collection. Students are required to fulfill 20 – 40 hours of public service and will engage in reflective learning through journal exercises and class presentations.
  - **LGST 4120 International Business Law -** Prerequisite: LGST 3010; LGST 4120 introduces students to relevant features of the various legal systems currently governing the conduct of international business—national, regional, and international. Topics include international trade agreements, international dispute resolution, jurisdictional and choice of law problems, treatment of foreign investments, foreign corrupt practices, conflicting standards on labor, the environment, competition, and tariff law. The course presents policy problems and operational concerns that arise as the result of conflicting laws, gaps in laws, and developing international standards.66

## MANAGEMENT

- **Sustainability courses:**
  - **MGMT 4150 Environment, Society, and Capitalism** - Prerequisites: All 3000-level BSM core courses; junior standing or above; This course takes a strategic planning perspective to investigate environmental management issues in the context of assessing and responding to competitive and social forces. This course examines a serious challenge to corporations competing in the global economy: How to maximize profitability and production in such a way that will allow the planet to support operations indefinitely. Emphasis will be on the company's ability to use both traditional management concepts and new sustainability practices to build and sustain a competitive advantage. Students will learn how an enterprise can meet sustainability goals while still fulfilling its financial and market objectives.
  - **MGMT 7150 Environment, Society, and Capitalism** - Prerequisite: MGMT 6210. This course takes a strategic planning perspective to investigate environmental management issues in the context of assessing and responding to competitive and social forces. This course examines a serious challenge to corporations competing in the global economy: how to maximize profitability and production in such a way that will allow the planet to support operations indefinitely. Emphasis will be on the company's ability to use both traditional management concepts and new sustainability practices to build and sustain a competitive advantage. Students will learn how an enterprise can meet sustainability goals while still fulfilling its financial and market objectives.
  
- **Courses that include sustainability:**
  - **MGMT 4160 Leadership Service Learning** - The purpose of this course is three-fold. First, students will develop a general understanding of leadership theories and an understanding of their own leadership traits. Second, students will use theories to help analyze real-world cases involving both successful and unsuccessful examples of leadership. Finally, students will practice their own leadership skills as they lead their teams in a variety of exercises and projects. Course includes a mandatory service learning component, MGMT 4896.
  - **MGMT 4890 Management of Technology and Innovation Public Service (Add-on Component)** - Prerequisite: MGMT 3010; Corequisite: MGMT 4180; junior standing or above; In this course students are required to complete an Eco Challenge Project where they will develop a plan utilizing the latest technologies to have the metropolitan New Orleans area run on totally renewable energy. This public service experience will add to the student's knowledge and experience seeing firsthand the needs of the community, and the challenges in transforming the city to an area sustained entirely on renewable resources. (Service Learning- Optional, Spring 2014, Fall 2013, Spring 2013, Fall 2012)
  - **MGMT 6140 Leadership & Ethics** - This course concerns the ethical foundations of leadership in business and society. Students will gain an understanding of various academic perspectives on leadership, real-world examples of effective and ineffective leadership, and insights into their own leadership capabilities. The emphasis on ethics will include some moral philosophy, but will also involve the application of common

sense morality to business leadership. This means that active student participation is essential in this course. The classroom experience will include much conversation, debate, disagreement, and dissent in response to provocative case studies, class exercises, and group projects.