

**Ph.D. MINERAL & ENERGY ECONOMICS  
Advising Sheet 2014/2015**

| <b>Student Name:</b>  | <b>Credit Hours</b> | <b>Semester/Year</b> |
|---|---------------------|----------------------|
| <b>Prerequisites</b>  |                     |                      |
| Principles of Microeconomics  | 3                   |                      |
| Calculus I  | 3                   |                      |
| Probability and Statistics  | 3                   |                      |
|   | <b>12</b>           |                      |
| <b>Core Courses</b>   |                     |                      |
| EBGN 509 Mathematical Economics*  | EBGN 509<br>3       | Required F1          |
| EBGN 510 Natural Resource Economics   | EBGN 510<br>3       | Required F1          |
| EBGN 511 Microeconomics I*  | EBGN 511<br>3       | Required F1          |
| EBGN 521 Microeconomics II  | EBGN 521<br>3       | Required S1          |
| EBGN 590 Econometrics   | EBGN 590<br>3       | Required S1          |
| EBGN Econometric Elective**   | EBGN ???<br>3       | F2/S2                |
|   | <b>18</b>           |                      |
| * EBGN 509 and EBGN 511 must be taken in the first semester of study as co-requisites.  |                     |                      |
| ** A second econometrics course is required (currently the available courses are EBGN594 or EBGN690). In addition please note that students should take a third econometrics course as a part of their extended core (typically 690). This will likely become a requirement starting Fall 2015.   |                     |                      |
| <b>Extended Core</b>  |                     |                      |
| EBGN 611 Advanced Microeconomics  | EBGN 611<br>3       | Required F2          |
| EBGN 600-level Elective   | EBGN 6??<br>3       | F2/S2                |
| EBGN 600-level Elective   | EBGN 6??<br>3       | F2/S2                |
|   | <b>9</b>            |                      |
| <b>Research Methods and Electives</b>   |                     |                      |
| EBGN 695 Research Methods   | EBGN 695<br>3       | S2                   |
| Choose Research Methods plus 6 additional courses in consultation with your advisor. Some typical electives are listed below. You are free to mix across the lists, but your program of study must be approved by your advisor and ultimately your thesis committee. Students should not assume that courses taken at Mines or other institutions will apply to their degree without consultation with the advisor. | 3                   | S1/F2                |
|   | 3                   | F2/S2                |
|   | 3                   | F2/S2                |
|   | 3                   | F2/S2                |
|   | 3                   | S2/F3                |
|   | 3                   | S2/F3                |
|   | <b>21</b>           |                      |
| <b>TOTAL</b>  | <b>48</b>           |                      |

**Typical Electives Grouped by Focus Area:**

| <b>Applied Economics</b>                             | <b>Semester</b> |
|--|-----------------|
| EBGN512 Macroeconomics                               | F               |
| EBGN530 Energy Economics                             | F               |
| EBGN535 Economics of Metal Industries and Markets    | F               |
| EBGN570 Environmental Economics                      | S               |
| EBGN594 Time-series Econometrics                     | S               |
| EBGN610 Advanced Resource Economics                  | S               |
| EBGN611 Advanced Microeconomics                      | F               |
| EBGN690 Advanced Econometrics                        | F               |
| EBGN698 Primary Fuels                                | S               |
| EBGN698 Computational Economics                      | S               |
| <b>Quantitative Methods</b>                          |                 |
| EBGN594 Time-series Econometrics                     | S               |
| EBGN655 Advanced Linear Programming                  | varies          |
| EBGN657 Advanced Integer Programming                 | F               |
| EBGN690 Advanced Econometrics                        | F               |
| EBGN698 Stochastic Programming                       | varies          |
| EBGN698 Computational Economics                      | S               |
| <b>Operations, Management and Finance</b>            |                 |
| EBGN504 Economic Eval. & Investment Decision Methods | S               |
| EBGN540 Accounting and Finance                       | F               |
| EBGN546 Investment and Portfolio Management          | F               |
| EBGN553 Project Management                           | S               |
| EBGN555 Linear Programming                           | F               |
| EBGN560 Decision Analysis                            | F               |

**Black List**

Courses that will, generally, not be approved for the MEE degree because of overlap, or other curricular issues.

**ETM:**

EBGN 515  
EBGN 564  
EBGN 567  
EBGN 574

**Petroleum Department:**  
PEGN 523

**Disclaimer:**

This advising sheet reflects expectations about proposed curriculum changes. It is intended as a guide for students and advisors during the transition. Degree requirements are stated in the Graduate Bulletin.