### Ph.D. MINERAL & ENERGY ECONOMICS

#### 2013/14 Advising Sheet

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<th>Student Name:</th>
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<th>Credit</th>
<th>Semester/Year (note1)</th>
<th>Grade</th>
<th>Fall 1</th>
<th>Spring 1</th>
<th>Fall 2</th>
<th>Spring 2</th>
<th>Beyond</th>
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#### Prerequisites

- Principles of Microeconomics: 3
- Calculus 1: 3
- Probability and Statistics: 3

#### Common Core

- EBGN 509 Mathematical Economics: 3, Required F1, x
- EBGN 510 Natural Resource Economics: 3, Required F1, x
- EBGN 511 Microeconomics: 3, Required F1, X
- EBGN 590 Econometrics: 3, Required S1, x
- EBGN 695 Research Philosophy: 3, Spring 2, x

#### Extended Core

- EBGN 611 Advanced Microeconomics: 3, Fall 2, x
- EBGN 600-level*: 3, varies
- EBGN 600-level*: 3, varies
  - Total: 24

*EBGN695 not eligible

#### Specialization

Choose 4 courses from any of the 3 below specializations.

List A: Economics - Applied Theory, Empirics, & Policy Analysis

- EBGN 521 Microeconomics II: S
- EBGN 530 Energy Economics: F
- EBGN 535 Economics of Metal Industries and Markets: F
- EBGN 541 International Trade: S
- EBGN 570 Environmental Economics: S
- EBGN 580 Exploration Economics: varies
- EBGN 610 Adv. Natural Resource Econ: S
- EBGN 690 Adv. Econometrics: F
- EBGN 695 Decision Analysis: F

List B: Finance (FIN)

- EBGN 504 Economic Eval. & Investment Decision Methods: S
- EBGN 505 Industrial Accounting: S
- EBGN 540 Accounting and Finance: F
- EBGN 545 Corporate Finance and Administration: F
- EBGN 546 Investments and Portfolio Management: varies
- EBGN 575 Advanced Mining & Energy Valuation: F

List C: Operations Research/Operations Management (OR/OM)

- EBGN 525 Operations Research Methods: F
- EBGN 528 Industrial Systems Simulation: F
- EBGN 552 Nonlinear Programming: S*
- EBGN 555 Linear Programming: F
- EBGN 556 Network Models: S*
- EBGN 557 Integer Programming: S
- EBGN 559 Supply Chain Management: varies
- EBGN 561 Stochastic Models in Mgmt Science: F
- EBGN 655 Advanced Linear Programming: S* (Math Dept.)
- EBGN 657 Advanced Integer Programming: F
- EBGN 698 Stochastic Programming: varies

#### Notes

- Note 1: Courses may be offered on a different schedule each year.
- Note 2: Students planning to earn a MS on route to the PhD need to complete EBGN512 (or equivalent) and EBGN525.
- Note 3: Dates in parenthesis are planned dates. Subject to change.
- Note 4: If no date is listed the course is typically offered once a year during the semester listed.
- Note 5: *Dates means two of the three courses will be offered.