

## RECOMMENDED ACADEMIC PLAN FOR B.S. IN ENERGY BUSINESS AND FINANCE (EBF)

Option: Geographic Information Systems (GIS)

University Park Campus

Effective Summer / Fall 2010

SEMESTER 1	CREDITS	SEMESTER 2	CREDITS
<a href="#">MATH 140</a> (GQ)	4	<a href="#">MATH 141</a> (GQ)	4
<a href="#">ECON 002</a> (GS)	3	<a href="#">ENGL 015</a> (GWS)	3
<a href="#">EM SC 100S</a> or <a href="#">CAS 100</a> (GWS)*	3	EMS NATURAL SCIENCE ELECTIVE	3
EMS NATURAL SCIENCE ELECTIVE	3	<a href="#">GEOG 160</a> (GS)	3
GA/GH ELECTIVE	3	GA/GH (US) ELECTIVE	3
<b>TOTAL CREDITS</b>	<b>16</b>	<b>TOTAL CREDITS</b>	<b>16</b>
SEMESTER 3	CREDITS	SEMESTER 4	CREDITS
<a href="#">E B F 200</a> (GS)	3	<a href="#">ACCTG 211</a>	4
<a href="#">GEOG 126</a> (GS; US;IL)	3	<a href="#">B LAW 243</a> or <a href="#">E R M 411</a>	3
<a href="#">ECON 302</a> (GS)	3	<a href="#">CMPSC 101</a> or <a href="#">200</a> or <a href="#">201</a> or <a href="#">202</a> (GQ)	3
NATURAL SCIENCE ELECTIVE	3	GA/GH ELECTIVE	3
GA/GH ELECTIVE	3	ELECTIVE	3
<b>TOTAL CREDITS</b>	<b>15</b>	<b>TOTAL CREDITS</b>	<b>16</b>
SEMESTER 5	CREDITS	SEMESTER 6	CREDITS
<a href="#">E B F 301</a>	3	<a href="#">E B F 304W</a>	3
<a href="#">ENNEC 484</a>	3	<a href="#">INS 301</a>	3
<a href="#">I B 303</a> (IL)	3	<a href="#">ENNEC 472</a> or <a href="#">STAT 301</a> or <a href="#">401</a>	3
<a href="#">GEOG 363</a>	3	<a href="#">GEOG 361</a> or <a href="#">362</a>	3
ELECTIVE	3	ELECTIVE	3
<b>TOTAL CREDITS</b>	<b>15</b>	<b>TOTAL CREDITS</b>	<b>15</b>
SEMESTER 7	CREDITS	SEMESTER 8	CREDITS
<a href="#">E B F 401</a>	3	<a href="#">ENNEC 473</a>	3
<a href="#">ENGL 202C</a> or <a href="#">202D</a> (GWS)	3	400 LEVEL GIS ELECTIVE	3
400 LEVEL GIS ELECTIVE	3	ELECTIVE	3
400 LEVEL GIS ELECTIVE	3	ELECTIVE	3
GHA ELECTIVE	1.5	GHA ELECTIVE	1.5
<b>TOTAL CREDITS</b>	<b>13.5</b>	<b>TOTAL CREDITS</b>	<b>13.5</b>

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**Option:** Geographic Information Systems (GIS)

(CONTINUED)

- **Bold type** indicates courses requiring a quality grade of C or better.
- *Italic type* indicates courses that satisfy both major and General Education requirements.
- ***Italic Bold*** type indicates C-or-better required courses that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH and GS are codes used to identify General Education requirements.
- US, IL and US; IL are codes used to designate courses that satisfy University United States/International Cultures requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirement.

### Program Notes:

- Students may satisfy their 18 required GA, GH and GS requirements either with 6/6/6 or 3/6/9 (any combination); a degree audit petition must be submitted to the associate dean for education in 14 Deike Building.
- Students who begin their studies at non-UP locations and/or join the college after their freshman semester should substitute [CAS 100](#) (GWS) for [EM SC 100S](#) (GWS).\*
- Technical Elective (students may also apply up to 6 credits of ROTC)