

## REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

### I. General Information

College: Engineering	Department: Mining Engineering
Current Program Name: Mining Engineering	<i>Proposed Program Name: No change</i>
Current Major Name: Mining Engineering	<i>Proposed Major Name: No change</i>
Current Degree Title: Bachelor of Science in Mining Engineering	<i>Proposed Degree Title: No change</i>
Formal Option:	Specialty Field:
Bulletin (yr and pgs): 2008/09 pp. 206	CIP Code: UK ID #: HEGIS CODE:
Accrediting Agency (if applicable): ABET, Inc. (Formerly the Accreditation Board for Engineering and Technology)	Today's Date: 15-April -2009

### 2. Particular University Studies Requirements or Recommendations for this Program.

	Current	<i>Proposed</i>
I. Mathematics	MA 113 (4)	<i>No change</i>
II. Foreign Language	Follow USP	<i>No change</i>
III. Inference-Logic	MA 113 (4)	<i>MA 114 (4)</i>
IV. Written Communication	ENG 104 or Honors	<i>No change</i>
V. Oral Communication	Suspended through Fall 2009	<i>Suspended through Fall 2009</i>
VI. Natural Sciences	CHE 105 (3), CHE 107 (3)	<i>No change</i>
VII. Social Sciences	ECO 201 (3) plus one additional non-ECO USP Social Science course (3)	<i>No change</i>
VIII. Humanities	Choose two courses from approved USP Humanities courses (6)	<i>No change</i>
IX. Cross-Cultural	Choose from approved USP cross- cultural courses	<i>No change</i>
X. USP Electives (3 must be outside the student's major)	Technical elective (3) Supportive elective (3)	<i>No change</i>

*To the extent that proposed changes in sections 3 through 8 involve courses offered in another program, please submit correspondence with the program(s) pertaining to the availability of such courses to your students.*

**3. University Graduation Writing Requirement** - select from approved courses.

**4. College Depth & Breadth of Study Requirements (if applicable). Include particular courses required/recommended for this program.**

Current

*Proposed*

REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

**5. Premajor or Preprofessional Course Requirements (if applicable).**

Current  
 ENG 104 (4)  
 MA 113 (4)  
 MA 114 (4)  
 MA 213 (4)  
 MA 214 (3)  
 CHE 105 (3)  
 CHE 107 (3)  
 PHY 231 (4)  
 PHY 232 (4)  
 PHY 241 (1)  
 PHY 242 (1)

*Proposed*  
 ENG 104 (4)  
 MA 113 (4)  
 MA 114 (4)  
 MA 213 (4)  
 CHE 105 (3)  
 PHY 231(4)

*plus an additional 12 credit hours acceptable towards the degree in mining engineering.*

**6. Credit Hours.**

- |                                                                   |                                              |                                                                               |
|-------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|
| a. Credit Hours Required:                                         | Current: 132                                 | <i>Proposed: 132</i>                                                          |
| b. Total Required for Graduation:                                 | Current: 132                                 | <i>Proposed: 132</i>                                                          |
| c. Required by Level:                                             |                                              |                                                                               |
| Currently:                                                        | 100: 20<br>(minimum)                         | 200: 42<br>(minimum)                                                          |
| <i>Proposed:</i>                                                  | <i>100: 20</i><br><i>          (minimum)</i> | <i>200: 42</i><br><i>          (minimum)</i>                                  |
|                                                                   |                                              | 300: 31<br>(minimum)                                                          |
|                                                                   |                                              | 400-500: 18 (mimimum)                                                         |
|                                                                   |                                              | <i>300: 33</i><br><i>          (minimum)</i>                                  |
|                                                                   |                                              | <i>400-500: 16 (minimum)</i>                                                  |
| d. Current Premajor or Preprofessional:                           | 35                                           | <i>d. Proposed Premajor or Preprofessional: 35</i>                            |
| e. Current Field of Concentration:                                |                                              | <i>e. Proposed Field of Concentration:</i>                                    |
| f. Current Division of Hrs between Major Subject & Related Field: |                                              | <i>f. Proposed Division of Hrs between Major Subject &amp; Related Field:</i> |
| g. Current Hrs Needed for a Specific Option or Specialization:    |                                              | <i>g. Proposed Hrs Needed for a Specific Option/Specialization:</i>           |
| h. Current Technical or Professional Support Electives:           | 9                                            | <i>h. Proposed Technical or Professional Support Electives: 9</i>             |
| i. Current Minimum Hours of Free or Supportive Electives:         | 3                                            | <i>i. Proposed Minimum Hours of Free or Supportive Electives: 3</i>           |

**7. Major or Professional Course Requirements.**

Current  
 CS 221 (2)  
 ECO 201 (3)  
 EE 305 (3)  
 EM 221 (3)  
 EM 313 (3)  
 EM 302 (3)  
 GLY 220 (4)  
 GLY 230 (3)  
 ME 220 (3)

*Proposed*  
 CHE 107 (3)  
 COM 199 (1)  
 CS 221 (2)  
 ECO 201 (3)  
 EE 305 (3)  
 EM 221 (3)  
 EM 313 (3)  
 EM 302 (3)  
 GLY 220 (4)

REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

ME 330 (3)  
 MNG 101 (1)  
 MNG 211 (2)  
 MNG 264 (3)  
 MNG 291 (2)  
 MNG 301 (3)  
 MNG 302 (1)  
 MNG 303 (1)  
 MNG 331 (2)  
 MNG 332 (3)  
 MNG 335 (3)  
 MNG 341 (3)  
 MNG 371 (3)  
 MNG 431 (4)  
 MNG 463 (3)  
 MNG 551 (3)  
 MNG 591 (1)  
 MNG 592 (3)

GLY 230 (3)  
 MA 214 (3)  
 ME 220 (3)  
 ME 330 (3)  
 MNG 101 (1)  
 MNG 211 (2)  
 MNG 264 (3)  
 MNG 291 (2)  
 MNG 301 (3)  
 MNG 302 (1)  
 MNG 303 (1)  
 MNG 322 (2)  
 MNG 331 (2)  
 MNG 332 (3)  
 MNG 335 (3)  
 MNG 341 (3)  
 MNG 371 (3)  
 MNG 431 (2)  
 MNG 463 (3)  
 MNG 551 (3)  
 MNG 591 (2)  
 MNG 592 (2)  
 PHY 232 (4)  
 PHY 241 (1)  
 PHY 242 (1)

**8. Minor Requirements (if applicable).**

Current

Proposed

**9. Rationale for Change(s) – if rationale involves accreditation requirements, please include specific references to those.**

Below is a summary of the requested changes and reason for changes.

Regarding new course MNG 322: Feedback from constituents (Mining Engineering Foundation, mining engineering alumni, employers of our alumni, and students) indicated that a course in mine health and safety management and processes was necessary for our graduates, leading to the creation of MNG 322. (This assessment process is mandated by our accreditation agency, ABET.) New course application and syllabus are attached.

Regarding changes in MNG 431: The mine systems analysis portion of MNG 431 was determined to be unnecessary at the present time, leading to the reduction in credits from 4 to 2. Course change application and syllabus (existing and proposed) are attached.

Regarding changes in MNG 591 and MNG 592: It was determined by the faculty that balancing the levels of effort in parts 1 and 2 of the senior mine desing project (i.e., MNG 591 and MNG 592) would be beneficial to the students; consequently, MNG 591 is being increased from 1 to 2 credit hours and MNG 592 is being reduced from 3 to 2 credit hours. Course change applications for MNG 591 and MNG 592 and the current and proposed syllabi for MNG 591 and MNG 592 are attached. Prerequisites have also been changed for MNG 591.

The following course changes and new course applications are also included with this request, although they are not related specifically to the program change:

MNG 331 Minor Course Change request - request to change prerequisites for MNG 331 from MNG 264, CHE 105, and PHY 231 to MNG 264.

## REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

MNG 371: MNG 371 has recently been approved to satisfy the Graduation Writing Requirement; therefore, this change is reflected in the typical semester by semester program. The syllabus is not included since that change had been completed prior to this request. No application nor syllabus attached.

MNG 531 New Course Application - MNG 531 will not be a required course; however, it will be a course that satisfies one of the technical electives. MNG 531 New Course Application and syllabus are attached.

MNG 541 New Course Application - MNG 541 will not be a required course; however, it will be a course that satisfies one of the technical electives. MNG 541 New Course Application and syllabus are attached.

REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

10. List below the typical semester by semester program for a major.

Current	Hours	<i>Proposed</i>	<i>Hours</i>
<i>YEAR 1 - Fall</i>			
CHE 105 (i.e. "BIO 103")	3 (i.e. "3")	CHE 105	3
CS 221	2	CS 221	2
ENG 104	4	ENG 104	4
MA 113	4	MA 113	4
MNG 101	1	MNG 101	1
University Studies	3	University Studies (Social Science)	3
Current Total, Year 1 Fall:	17	<i>Proposed Total, Year 1 Fall:</i>	<i>17</i>
<i>YEAR 1 - Spring</i>			
CHE 107	3	CHE 107	3
MA 114	4	MA 114	4
MNG 264	3	MNG 264	3
PHY 231	4	PHY 231	4
PHY 241	1	PHY 241	1
Current Total, Year 1 Spring:	15	<i>Proposed Total, Year 1 Spring:</i>	<i>15</i>
<i>YEAR 2 - Fall</i>			
EM 221	3	EM 221	3
GLY 220	4	GLY 220	4
MA 213	4	MA 213	4
MNG 331	2	MNG 331	2
PHY 232	4	PHY 232	4
PHY 242	1	PHY 242	1
Current Total, Year 2 Fall:	18	<i>Proposed Total, Year 2 Fall:</i>	<i>18</i>
<i>YEAR 2 - Spring</i>			
COM 199	1	COM 199	1
EM 302	3	EM 302	3
MA 214	3	MA 214	3
ME 220	3	ME 220	3
MNG 291	2	MNG 291	2
MNG 303	1	MNG 303	1
MNG 332	3	MNG 332	3
Current Total, Year 2 Spring:	16	<i>Proposed Total, Year 2 Spring:</i>	<i>16</i>

REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

10. Semester Plans, continued.

Current	Hours	Proposed	Hours
YEAR 3 - Fall		YEAR 3 - Fall	
EE 305	3	EE 305	3
GLY 230	3	GLY 230	3
ME 330	3	ME 330	3
MNG 211	2	MNG 211	2
MNG 301	3	MNG 301	3
MNG 302	1	MNG 302	1
MNG 371	3	MNG 371/GWR	3
Current Total, Year 3 Fall:	18	Proposed Total, Year 3 Fall:	18
YEAR 3 - Spring		YEAR 3 - Spring	
ECO 201	3	ECO 201	3
EM 313	3	EM 313	3
MNG 335	3	MNG 322	2
MNG 463	3	MNG 335	3
MNG Min Proc Tech Elec	3	MNG 463	3
Univ Studies/GWR*	3	MNG Min Proc Tech Elec	3
Current Total, Year 3 Spring:	18	Proposed Total, Year 3 Spring:	17
YEAR 4 - Fall		YEAR 4 - Fall	
MNG 341	3	MNG 341	3
MNG 431	4	MNG 431	2
MNG 551	4	MNG 551	4
MNG 591	1	MNG 591	2
University Studies	3	University Studies (Humanities)	3
		University Studies (Humanities)	3
Current Total, Year 4 Fall:	15	Proposed Total, Year 4 Fall:	17
YEAR 4 - Spring		YEAR 4 - Spring	
MNG 592	3	MNG 592	2
Supportive Elective	3	Supportive Elective	3
Technical Elective	3	Technical Elective	3
Technical Elective	3	Technical Elective	3
University Studies	3	University Studies (Cross Cultural)	3
Current Total, Year 4 Spring:	15	Proposed Total, Year 4 Spring:	14
Current Total Hours:	132	Proposed Total Hours:	132

REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

12. Requested effective date for changes (term/year): Fall / 2009

13. Within the department, who should be contacted for further information about the proposed program change?

Name: Joseph Sottile Phone: 257-4616 Email: jsottile@engr.uky.edu

14. Signatures of Approval.

11-Nov-2008

DATE of Approval by  
Department Faculty

Rick Honaker

printed name

Rick Honaker  
Rick Honaker

Digitally signed by Rick Honaker  
DN: cn=Rick Honaker, c=US, o=University of  
Kentucky, ou=Mining Engineering,  
email=rhonaker@engr.uky.edu  
Date: 2009.09.09 15:07:52 -0400

Reported by Department Chair

signature

11-20-09

DATE of Approval by  
College Faculty

RICHARD J. SWEIGARD

printed name

Richard J. Sweigard

Reported by College Dean

signature

2/2/2010

\*DATE of Approval by  
Undergraduate Council

printed name

Reported by Undergraduate Council Chair

signature

\*DATE of Approval by  
Graduate Council

printed name

Reported by Graduate Council Chair

signature

\*DATE of Approval by  
Health Care Colleges  
Council (HCCC)

printed name

Reported by Health Care Colleges Council Chair

signature

\*DATE of Approval by  
Senate Council

Reported by Office of the Senate Council

\*DATE of Approval by the  
University Senate

Reported by the Office of the Senate Council

\*If applicable, as provided by the *University Senate Rules*.