Underground Mining
MNGE 310 (3 semester hours)
Spring 2017

Class Time: MWF 4:00 – 4:50 pm

Final Exam: Wednesday 05/10/2017 5:00-7:00pm, Room Location ENGR A29

Instructor: Rohit Pandey; Office: EngrD13, Phone: 618-203-9423; e-mail: rohitpandey@siu.edu

Associated Instructor: Dr. Satya Harpalani (guest lectures)

Instructor Office Hours: MF 2:00-4:00

Catalog Description: 310-3 Underground Mining. Underground mining access openings; underground mining equipment types and functions; underground mining methods, planning, and layout consideration.

Course Objectives: The primary objective of this course are to familiarize the students with the various underground mining methods, factors that influence the mining method selection and how they can be applied, merits and demerits of each method.

The course includes two field trips to underground operations; field report is required for each trip. Presentation based lecture by the students at a later stage is mandatory.

Grading: Final average would be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final</td>
<td>30%</td>
</tr>
<tr>
<td>Midterms (2)</td>
<td>30%</td>
</tr>
<tr>
<td>Presentation</td>
<td>15%</td>
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<tr>
<td>Homework Assignments</td>
<td>15%</td>
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<tr>
<td>Field Reports</td>
<td>10%</td>
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</tbody>
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Broad topics to be covered:

- Introduction: underground terminology, isolated/multiple openings, mining method selection.
- Self-supported mining methods: room/stope and pillar, shrinkage and sublevel stoping.
- Supported mining methods: cut and fill method.
- Caving methods: longwall/shortwall mining, sublevel caving and block caving.
- Other mining techniques.

General Course Information: Students who miss an exam would be given zero for that exam. Exception – severe health condition – when the weight for the missed exam would be transferred to the final exam.

Each student is expected to do his own work. Credit for any dishonest work will be shared equally by all students involved.

Assignments handed in late without an acceptable excuse would be downgraded by 10% each day past the deadline.

Required Text:
Class notes will suffice the requirement for this course. However, students are highly encouraged to use Introductory Mining Engineering by Hartman and Mutmansky as a reference.
IMPORTANT DATES *
Semester Class Begins: 01/17/2017
Last day to add full-term course (without Dean’s signature): 01/22/2017
Last day to drop from the University with a full refund: 01/27/2017
Last day to drop a full-term course for a credit/refund: 01/29/2017
Deadline to apply to graduate at the end of this term: 04/2/2017
Final examinations: 05/5–5/12/2017
Commencement: 05/13/2017

Note: For more detailed information on the above deadlines, please visit http://registrar.siu.edu/calendars. For add/drop dates that apply to shorter-than-full-term courses, please look at the Schedule of Classes search results at http://registrar.siu.edu/schedclass/index.php

SPRING SEMESTER HOLIDAYS
Martin Luther King Jr.'s Birthday Holiday 01/16/2017
Spring Break 3/19–3/23/2017

WITHDRAWAL POLICY—Undergraduate only
Students who officially register for a session must officially withdraw from that registration in a timely manner to avoid being charged as well as receiving a failing grade for those classes. An official withdrawal must be initiated by the student, or on behalf of the student through the academic unit, and be processed by the Registrar's office. For the proper procedures to follow when dropping courses and when withdrawing from SIU visit: http://registrar.siu.edu/students/withdrawal.php

INCOMPLETE POLICY—Undergraduate only
An INC grade may be assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments for the course. An INC must be changed to a completed grade within one full semester (undergraduates), and one full year (graduate students), from the close of the term in which the course was taken or graduated, whichever occurs first. Should the student fail to complete the remaining course requirements within the time period designated, the incomplete will be converted to a grade of F and such grade will be computed in the student’s grade point average. For more information visit: http://registrar.siu.edu/grades/incomplete.php

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit more than once. For students receiving a letter grade of A, B, C, D, or F, the course repetition must occur at Southern Illinois University Carbondale. Effective for courses taken Summer 2013 or later, only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. This policy will be applied to all transferrable credit in that only the last grade will be used to calculate grade point average. Only those courses taken at the same institution are considered repeats under this policy. See full policy at http://registrar.siu.edu/students/repeatclasses.php

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please refer to the graduate catalog at http://gradschool.siu.edu/about-su/grad-catalog/

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must contact DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM
Student Conduct Code: http://sr.siu.edu/student-conduct-code/

SAFETY AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu/

SALUKI CARES
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely within the community, we can provide students and their families with support and resources that are important part of the community. For more information call (618) 453-1492, email: salukicares@siu.edu, or visit http://salukicares.siu.edu/

SIU’S EARLY WARNING INTERVENTION PROGRAM (EWIP)
Students enrolled in courses participating in SIU’s Early Warning Intervention Program might be contacted by University staff during a semester. More information can be found at the Core Curriculum’s Overview webpage: http://corecurriculum.siu.edu/program-overview/

EMERGENCY PROCEDURES
We ask that you become familiar with Emergency Preparedness @ SIU. Emergency response information is available on posters in buildings on campus, on the Emergency Preparedness @ SIU website, and through text and email alerts. To register for alerts visit: http://emergency.siu.edu/

STUDENT MULTICULTURAL RESOURCE CENTER
The Student Multicultural Resource Center serves as a catalyst for student development, diversity and inclusion. As the Center continues its work, we are here to ensure that you think, grow and succeed. We encourage you to step by the Center, located in Grinnell Commons, to see the resources available and discover ways you can get involved on the campus. Visit us at http://inclusiveness excellencex.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and in the student union. To find more information please visit the Center for Learning and Support Services website:

- Tutoring: http://tutoring.siu.edu/
- Math Lab: http://math.siu.edu/courses/course-help.php
- WRITING CENTER: The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit: http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our office’s main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

MILITARY COMMUNITY
There are complexities of being a member of the military community and also a student. Drill schedules, calls to active duty, complications with GI Bill disbursement, and other unforeseen military and veteran related developments can complicate academic life. If you are a member of the military community and in need of accommodations please visit Veterans Services at http://veterans.siu.edu/

Additional Resources:
- ADVISEMENT: http://advisement.siu.edu/
- SIU ONLINE: http://online.siu.edu/
- SALUKI SOLUTION FINDER: http://solutionfinder.siu.edu/
- MORRIS LIBRARY HOURS: http://libguides.lib.siu.edu/hours