# College of Engineering, SIUC UCOL 101E – Foundations of Inquiry: Introduction to Engineering Fall 2014

#### **Instructors**:

James Mathias, Ph.D., P.E. James Phegley, Ph.D.

Course Coordinator

Associate Professor Senior Lecturer

Office: EGRE 024 Office: EGRE 210 Phone: 618-453-7016 Phone: 618-453-2120

Email: mathias@engr.siu.edu Email: phegley@engr.siu.edu Office Hrs: MWF 1 - 3 p.m. Office Hrs: MWF 1 - 3 p.m.

#### **Guest Instructors**:

Dr. John Warwick, Professor & Dean, College of Engineering

Dr. Sanjeev Kumar; Professor & Chair, Department of Civil & Environmental Engineering

Dr. Sam Spearing; Associate Professor, Department of Mining & Mineral Resource Engineering

Dr. Carl Spezia; Associate Professor & Electrical Engineering Technology Coordinator, Department of Technology

Dr. Julie Dunston; Associate Professor & Industrial Technology Coordinator, Department of Technology

#### **OBJECTIVES**

This course has the following objectives that are aimed at enhancing your success as a student at SIUC and its College of Engineering:

- 1. Students will begin to develop a broad, comprehensive perspective on higher education.
- 2. Students will contribute to and help maintain a safe, supportive and positive university learning experience for themselves and their academic peers.
- 3. Students will understand and begin to practice basic communication skills appropriate to the University setting.
- 4. Students will begin the process of understanding critical thinking in the university context.
- 5. Students will understand and apply information technology in support of their academic work.
- 6. Students should begin to develop knowledge of their own abilities, skills, and life demands so that they can develop these more effectively in pursuit of their academic goals.
- 7. Students should begin to develop an understanding of career opportunities available to them and the professional responsibility associated with that career.
- 8. Students will become information literate, using critical thinking and problem solving skills to build an intellectual framework for discovering, using and evaluating information.
- 9. Students will demonstrate an understanding of inquiry and/or creative processes from disciplinary and/or interdisciplinary perspectives specific to their College.
- 10. Through hands-on laboratory projects and additional activities, students will be able to appreciate the role and importance of math and science in engineering.

#### **RESOURCES**

Recommended Text: Stephan, Bowman, Park, Sill, and Ohland, Introduction to Engineering -

Southern Illinois University, Pearson Custom Library, New York, 2012 (ISBN

1256579076)

<u>Desire2Learn</u>: Go to: online.siu.edu College Website: http://www.engr.siu.edu

#### **GRADING CRITERIA**

Homeworks (in class and in lab)	25%
Lab Reports	25%
Midterm Exam - Wed, Oct 1, 2014	25%
Final Exam – Wed, Dec 10, 2014, 12(noon)	25%

# **HOMEWORK** (some given in class and some given in lab sections)

The due date for homework will be specified when the assignment is given. All assignments must be submitted in the classroom, <u>not</u> in instructors' mailboxes, and are due at the <u>beginning</u> of class. Late homework will <u>not</u> be accepted. Homework submitted for a grade must be <u>neat</u> and completed on 8.5" by 11" paper. Engineering quadrille paper is preferred. At the top of the first page, list your name, group number, the course number, assignment number, and the date submitted. Homework grades will at times be based upon your demonstration of problem solving skills, and in other cases, simply whether you have diligently attempted each problem.

#### LAB REPORTS

Laboratory reports will definitely be assigned with the laboratory projects associated with the Mechanical, and Electrical and Computer Engineering projects and likely also with some of the other projects. The text of the laboratory reports will be typed and follow the format given for that laboratory project.

#### **EXAMS**

There will be 2 exams: a midterm and final exam. The midterm exam will cover the material presented in large group lectures before the midterm exam while the final exam will focus on the laboratory projects now that all students have completed all projects and the small number of large group lectures held after the midterm exam. There will be <u>no make-up exams</u>.

## **ASSIGNMENT OF GRADES**

The following grading scale will be strictly adhered to throughout the semester:

GRADE	SCORE
A	90% – 100%
В	80% - 89%
С	70% – 79%
D	60% - 69%
F	< 60%

#### **ATTENDANCE**

Attendance will be recorded, and you are expected to attend all lectures and lab sessions. However, if you find it necessary to be absent, there is no distinction between excused and unexcused absences, and the following policy will apply: (1) for 1 through 3 absences, no penalty will be incurred; (2) for 4 through 10 absences, a student's overall grade will be reduced by 3% for each missed class/lab session; (3) if a student has more than 10 absences, she/he will NOT pass the course.

#### **EXPECTATIONS**

The students in the class have the responsibility to maintain an atmosphere in which no person is impeded from learning. Turn off all electronic devices in class to avoid distractions to you and others. One aspect of this course focuses on note taking, instead of a lecture about note taking, this principle will be taught by asking about what notes have been taken during large group lectures and quickly checking the notes the students have taken at the end of the lecture to give credit for attendance that day. If you have a very strong reason for taking notes electronically please come see me. Be prompt for all classes, labs and appointments; arriving more than 5 minutes after class begins will be considered an absence. Furthermore, active class participation and group discussions will make our time together more enjoyable and successful.

#### OFFICE HOURS AND ELECTRONIC MAIL

We encourage you to seek assistance and advisement when you have trouble understanding course concepts or homework problems. The recommended method for contacting the teaching assistant or instructor is during office hours. As an alternative, use e-mail to instructors for short questions, to arrange an appointment, or to suggest a need for clarification of assignments. If our doors are open and we are available for discussion, you are welcome to come in.

Please be prepared with specific questions when you come to an office hour or appointment. You should provide evidence that you have worked on the problem or topic to which your question pertains.

## **ACADEMIC INTEGRITY**

Academic integrity involves a student's obligation to act with honesty and to respect the rights of other in carrying out all academic assignments, including regularly assigned homework and laboratory reports. Students are expected to exhibit this quality at all times. The University policy concerning academic dishonesty will be strictly adhered to in both the laboratory and lecture components of this course. Violations of this policy include

- Plagiarism or representing the work of another as one's own work
- Preparing work for another that is to be used as that person's own work
- Cheating by any method or means
- Knowingly falsifying or manufacturing scientific or educational data and representing the same to be the result of scientific or scholarly research
- Knowingly furnishing false information to a university official relative to academic matters
- Soliciting, aiding, abetting, concealing, or attempting conduct in violation of this policy

Any violation of the policy will result in immediate failure of this course, conduct board penalties, or both. If you have any questions about whether a particular behavior is in violation of the University's policy, you should ask before proceeding.



# Syllabus Attachment

Fall 2014

"We emphasize student achievement and success because achievement and success are essential if we are to shape future leaders and transform lives." 1

http://pvcaa.siu.edu/

#### IMPORTANT DATES \*

Semester Class Begins	08/18/2014
Last day to add a class (without instructor permission):	08/24/2014
Last day to withdraw completely and receive a 100% refund:	08/31/2014
Last day to drop a course using SalukiNet:	10/26/2014
Last day to file diploma application (for name to appear in Co	nmencement
program):	10/31/2014
Final examinations:	2/8-12/12/2014

Note: For outreach, internet, and short course drop/add dates, visit

Registrar's Academic webpage http://registrar.siu.edu/

#### FALL SEMESTER HOLIDAYS

Labor Day 09/01/2014 Fall Break 10/11—10/14/2014 Veterans Day 11/11/2014

Thanksgiving Vacation 11/26-11/30/2014

#### WITHDRAWAL POLICY ~ Undergraduate only

Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit <a href="http://registrar.siu.edu/odf/ugradcatalog1314.pdf">http://registrar.siu.edu/odf/ugradcatalog1314.pdf</a>

#### INCOMPLETE POLICY~ Undergraduate only

An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. For more information please visit:

http://registrar.siu.edu/grades/incomplete.html

#### REPEAT POLICY

An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A,B,C,D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at

http://registrar.siu.edu/pdf/ugradcatalog1314.pdf

#### GRADUATE POLICIES

Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit

http://gradschool.siu.edu/about-us/grad-catalog/index.html

#### 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 come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements.

http://disabilityservices.siu.edu/

# \* Southers Blinois University Carbondale. (2013). Porthways to Excellence: A Strotegic Plan.

#### PLAGIARISM CODE

http://prosa.sia.edu/\_commonMocuments/Plagisrium/Suide%20to%20Proventing%20Plagisrium.pdf

#### 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 with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: (618) 453-5714, or siucares@siu.edu,

http://salukicares.siu.edu/index.html

#### EMERGENCY PROCEDURES

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. We ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) programs. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website at www.dps.siu.edu (disaster drop down) and the Emergency Response Guideline pamphlet. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.

#### INCLUSIVE EXCELLENCE

SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well an essential preparation for any career. For more information please visit: <a href="https://www.inclusiveexcellence.siu.edu/">https://www.inclusiveexcellence.siu.edu/</a>

#### MORRIS LIBRARY HOURS

http://www.lib.siu.edu/abou

#### LEARNING AND SUPPORT SERVICES

Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:

Tutoring: http://tutoring.siu.edu/

Math Labs http://tutoring.siu.edu/math\_tutoring/index.html

#### 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 <a href="http://write.siu.edu/">http://write.siu.edu/</a>

#### 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/#

#### Additional Resources Available:

SALUKINET: https://salukinet.siu.edu/cp/home/displaylogin

ADVISEMENT: http://advisement.siu.edu/

Fall 2014 R.O'Rourke

# **INDUSTRIAL MENTORS**

The following are designated industrial mentors that are available to assist you in your academic career. These are individuals that have agreed to respond to your questions, provide guest lectures, and offer academic and career advice. Simply use the contact information provided!

Last	First	TITLE & COMPANY	ADDRESS	E-MAIL ADDRESS	TELEPHONE NO.
Abba	Michael	General Supervisor, Admin & 1800 W. Main <u>mabba@ameren.com</u>		618-993-4633	
		Business Services AmerenCIPS	Marion, IL		
Blake	Rod	Segate Technology Manager	1280 Disc Dr. Shakopee, MN	rodney.d.blake@seagate.com	952-402-2529
Chan	Ting Pong (Jack)	Water Resources Engineer	525 E. North St., Suite F	ichan@1rmg.net	815-928-8990, x228
		Land Resource Management	Bradley, IL	<del></del>	,
		Group (LRMG)	•		
Clendenin	Ralph	Mfg. Engineering Manager	510 E. McClurken Avenue	Rclendenin@spartan1mp.com	618-443-4452, x1219
		Spartan Light Metal Products	Sparta, IL	1 1	,
Edwards	Glenn	Aisin Manufacutre	11000 Redco Dr., Marion, IL	g-edwards@aisinil.com	
Eberhart	Gina	Engineer	1050 West Blvd.	GEBERHART@ameren.com	618-234-6276 or
		AmerenIP	Belleville, IL		618-443-2636
Gaines	Sue	NASA	TA-F, Kennedy Space Center, FL 32899	Sue.R.Gaines@nasa.gov	(321)867-8497
Hinchee	Beth	Engineering Recruiting Manager	MOS9 PO Box 600	hinchee_beth_a@cat.com	309-578-8726
		Caterpillar, Inc	Mossville, IL		
Hooks	Dean	Principal Manager	100 Airport Way, MC S1003245	dean.c.hooks@boeing.com	(314) 232-2398
		Boeing	St. Louis, MO		
Hoyson	Chris	Vice President		Chris.Hoyson@Whiting-Turner.com	410.859.8610
L.		The Whiting-Turner Contracting Company			
Johnson	Michael R.	Mgr. Process Control	20th & State Street	MRJohnson@uss.com	618-451-3456
		United States Steel (USS)	Granite City, IL		
		Granite City Works			
Lomax	Ozzie	Ameren UE	8200 Fine Road	olomax@ameren.com	314-992-7201
		Meramec Plant	St. Louis, MO		
Lo	Howard	Founder	440 W. Torrey Pines Way	hlo@visitview.com	650-400-3210
		Mastersoft Inc.	Vernon Hills, IL		
Parry	Travis M.	Water Resources Department	9575 W. Higgins Road	tparry@cbbel.com	847-823-0500
		Christopher B. Burke	Rosemont, IL		
		Engineering, Ltd.			
Porier	Jim	Product Development Engineer	AB3465	cndnrdnk@yahoo.com	309-494-1568
		Caterpillar, Inc	100 N.E. Adams Street, Peoria, IL		
Reitz	Paul H.	Principal, Reitz & Jens, Inc.	1055 Corporate Square Dr., St. Louis	preitz@reitzjens.com	314-993-4132,x224
Riter	Bruce	Attorney At Law	101 1st St.	bruce@riter.net	
		Law Office of Bruce D. Riter	Los Altos Hills, CA		
Robinson	Debbi Cecil	Human Resources Manager	114 S. Silver Springs Rd.	drobinson@deltacos.com	573-334-5261
		Delta Companies, Inc.	Cape Girardeau, MO		
	<u> </u>	Dena Companies, inc.	8820 Route 148, PO Box 278, Marion	+	
Colmono	Matt	General Dynamics	8820 Route 148, PO Box 278, Marion	MSolverson@MAR.GD-OTS.COM	
Solverson Wade	Chuck	IBM	650 Harry Road, San Jose, CA	cwade@almaden.ibm.com	408-927-1650
Wells	Brian	Mgr. Product Support Operations	030 Harry Road, San Jose, CA	WellsBrianA@JohnDeer.com	309-765-1993
wells	DITAII	John Deere		wellsbrianA@JoiliDeer.com	309-703-1993
White	David	0.1		dwhite@cadence.com	408-260-7561
11 IIIC	Daviu	Cadence	5200 N.E. Elam Young Pkwy MS EY2-07	a winte @ cadence.com	-100-200-7J01
Howard	Wilson	Intel	Hillsboro, OR	howard.wilson@intel.com	503-696-3959
Rathish	Jayabharathi	Intel	1900 Prairie City Road	rathish.Jayabharathi@intel.com	916-356-1638
	<u> </u>	Sr. Staff CAD Engr.	Folsom, CA		
Sanders	Bert	eServ	8200 N. Allen Road, Peoria, IL	Bert.Sanders@ps.net	(309) 740-7565
Puzey	Michelle	John Deere Seeding Group		PuzeyMichelleC@JohnDeere.com	(309) 765-7264
DeRuntz	Stephanie	DePuy Orthopaedics	700 Orthopaedic Dr., Warsaw, IN 46581	sderuntz@its.jnj.com	574-372-7284
Feathers	Tim	CDM Federal Programs	1050 North Reed Station Road, Suite D	FeatherTD@cdm.com	618.351.4530
	<u></u>		Carbondale, IL 62902		<u> </u>
Kelsey	Kelly	Jacob's Engineering	One Financial Plaza 501 N. Broadway	kelly.kelsy@jacobs.com	314-335-4000
			St. Louis, Missouri 63102-2121	1	
	<del> </del>	Boeing Defense, Space & Security: Propulsion	5.1 25 dio, 111050 dil 100 102 2121	+	
Grant	Mullin	Engineering	St. Louis, Mo	Grant.Mullen@boeing.com	(314)-233-4720
Haley	Boswell	ATS, Advaced Technology Services	Peoria, IL	hboswell@advancedtech.com	309.693.6312
raicy	DOSMEII	A15, Advaced Technology Services	i cona, iL	nooswen w auvanceuteen.com	307.073.0314
Traci	Abney	Recent Grad	St. Louis, MO	traciabney@sbcglobal.net	+
Traci	Unich	recent Orau	Dr. Louis, MO	u aciabi iey ⊌ sucyiubal.Het	

# STUDENT GROUPS

The class will be divided into 4 groups for the laboratory portion of this course. You can determine your group from the following list, which are alphabetical by first name. If your name is not on the list, please see Dr. Mathias to be added to a group.

	Group 1 (A - Dalton)
1	Abdulmajeed A. Almuzaini
2	Adam J. Greenacre
3	Alexander M. Pozo
4	Alexis Fulcher
5	Amadeusz D. Lord
6	Andrew T. Will
7	Austin M. Wojtanowski
8	Austin S. Bechtel
9	Benjamin A. Hornsey
10	Benton P. Bailey
11	Brad J. Vahling
12	Brendan M. Atkisson
13	Brenden A. Tisler
14	Brennan T. Bourgeois
15	Brett H. Bolek
16	Brian Barraza
17	Cameron B. Hupp
18	Cameron P. Lenzini
19	Chase D. Jackson
20	Chrystal M. McKiski
21	Clinton T. Jones
22	Connor E. Atkisson
23	Corey J. Albrecht
24	Dakota M. Oria
25	Dalton E. Williams
1	Group 3 (Katherine - Peter)
1	Katherine J. Grindstaff
2	Katherine J. Grindstaff Keri C. Fenlon
2	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins
3 4	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner
2 3 4 5	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks
2 3 4 5 6	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo
2 3 4 5 6 7	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues
2 3 4 5 6 7 8	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis
2 3 4 5 6 7 8	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski
2 3 4 5 6 7 8 9	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee
2 3 4 5 6 7 8	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski
2 3 4 5 6 7 8 9 10	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger
2 3 4 5 6 7 8 9 10 11 12	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe
2 3 4 5 6 7 8 9 10 11 12 13	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner
2 3 4 5 6 7 8 9 10 11 12 13 14	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael T. Brunner Michael T. Lawrence
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi Mohammed S. AlSubaie
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi Mohammed S. AlSubaie Nicholas K. Jamieson Noah Berman Olivia S. Donnel
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi Mohammed S. AlSubaie Nicholas K. Jamieson Noah Berman Olivia S. Donnel Patrick T. O'Sullivan
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi Mohammed S. AlSubaie Nicholas K. Jamieson Noah Berman Olivia S. Donnel Patrick T. O'Sullivan Paul Coen
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi Mohammed S. AlSubaie Nicholas K. Jamieson Noah Berman Olivia S. Donnel Patrick T. O'Sullivan Paul Coen Paul L. Schumacher
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Katherine J. Grindstaff Keri C. Fenlon Kevin I. Jenkins Kyle J. Wagner Logan N. Jacks Luis A. Castillo Marcia B. Rodrigues Mariah A. Manis Matthew F. Malinowski Mehdi A. Shafiee Michael L. Enger Michael R. Wolfe Michael T. Brunner Michael T. Lawrence Miles D. McAtee Mohammed I. Algamedi Mohammed S. AlSubaie Nicholas K. Jamieson Noah Berman Olivia S. Donnel Patrick T. O'Sullivan Paul Coen

Group 2 (Daniel - Kaleb)	
Daniel G. Ferguson	
Devon T. Johnson	
Edwin A. Roman	
Eleysi Pagan	
Elijah L. Fennell	
Elijah S. Greer	
Erica B. Kelly	
Evan M. Gebhardt	
Faisal Almarri	
Garrett R. Pferrer	
Gregory P. Wordel	
Gregory R. Janis	
Jacob A. Strutner	
Jacob M. Bell	
Jake B. Morris	
Jared E. Childress	
Jenna M. Maurer	
Jeremiah S. Roberts	
Joseph A. Voypick	
Joseph P. Castrejon	
Joshua L. Hancock	
Joshua T. Mueller	
Julian C. Sidney	
Justin J. Boudreaux	
Kaleb W. Cutsinger  Croup 4 (People)   Zachery)	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte Taylor M. Williams	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte Taylor M. Williams Terry J. Gruns	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte Taylor M. Williams Terry J. Gruns Thomas J. Birch	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte Taylor M. Williams Terry J. Gruns Thomas J. Birch Tristan W. Hudgens	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte Taylor M. Williams Terry J. Gruns Thomas J. Birch Tristan W. Hudgens Tyler N. Tepen	
Group 4 (Rachel - Zachery) Rachel L. Bisgaard Rajah L. Dye Rebecca A. Mackowiak Richard G. Saucedo Robert Nelson Robert Qualls Roger L. Mast Ryan J. Netemeyer Ryan J. Nick Ryan M. Brunton Ryan R. Steele Samuel J. Elford Stephen T. Mahn Steven R. Osborn Sydnie J. Schwarz Tanner L. Runte Taylor M. Williams Terry J. Gruns Thomas J. Birch Tristan W. Hudgens Tyler N. Tepen William G. Bennett	

		Date	Topic	Instructor	GR1	GR2	GR3	GR4
	М		Introduction	JM-JW	A111	A111	A111	A111
W1	W	_	Academic life	JM	A111	A111	A111	A111
	F		Intro to CEE	SK	A111	A111	A111	A111
	М		Intro to ECE	JP	A111	A111	A111	A111
W2	W		Intro to MEEP	JM	A111	A111	A111	A111
	F	_	Intro to Technology	CS	A111		A111	
	M	1-Sep	LABOI		7	7		7
W3	W	3-Sep	Intro to Mining	SS	A111	A111	A111	A111
	F		Projects	JP-JM	A131	A131	E230	E237
	M		Projects	JP-JM	A209	A221	E230	E237
W4	W		Projects	JP-JM	A221	A209	E230	E237
	F		Projects	JP-JM	A209	A221	E230	E237
	M		Projects	JP-JM	A221	A209	E230	E237
W5	W		Projects	JP-JM	A209	A221	E230	E237
	F		Projects	JP-JM	A221	A209	E230	E237
	M		Projects	JP-JM	A209	A221	E230	E237
W6	W		Projects / Professional Ethics	JW-JM	A221	A209	A111	A111
****	F		Unit Conversions	JM	A111	A111	A111	A111
	M	29-Sep	Writing Center & Tutoring	JM	A111	A111	A111	
W7	W	1-Oct	MIDT	EDM	AIII	A111	A111	A111
***	F	3-0ct	Guest #1	LKW	A111	A111	A111	A111
	M	6-Oct	Projects	CS	A111	A111	A111	
W8	W	8-0ct	Projects	CS	A111	A111	_	A111
****	F			CS	A111	A111		A111
	M	13-Oct	Projects FALL E		AIII	AIII	AIII	AIII
W/Q	W		Projects	SS	A111	A111	A111	A111
W9	F		Projects	SS	A111	A111	A111	A111
	M		Projects	SS	A111	A111	A111	A111
W10	W		Projects	SK	A111	A111	A111	A111
*****	F		Projects	SK	A111	A111	A111	A111
	M		Projects	SK	A111		A111	
W11			Attend Engineering Career Fair	SIX.		A111		
****	F		Healthy Decisions - Wellness Center	JP-JM	A111		A111	
	M	3-Nov	Registered Student Orgs	JF-JM	A111		A111	
W12		5-Nov	Projects	JP-JM	E230	E237		A131
	F	7-Nov	Projects	JP-JM	E230	E237		A221
	M		Projects	JP-JM	E230	E237		A209
W13			Projects	JP-JM	E230	E237		A221
*****	F		Projects	JP-JM	E230	E237		A209
	M		Projects	JP-JM	E230	E237		A221
W14			Projects	JP-JM	E230	E237		A209
****	F		•		E230			A221
	M		Projects  Projects / Professional Ethics	JP-JM	A111	E237		A209
W15			Projects / Professional Ethics	JW-JM	AIII	A111	MZZI	A209
W 13	F	26-Nov	THANSGIVING BREAK					
	M	28-Nov	Cuppt #2		A111	A111	A111	Λ111
W16		1-Dec	Guest #2	LC III	A111		A111	
VV 10	F	3-Dec	Internships/Resumes	LG-JM	A111		A111	
W17	W	5-Dec	Conclusion	JM-JW		АПП	AIII	AIII
VV 17	VV	10-Dec	FINAL EXAM			V		

JM: James Mathias; JP: James Phegley; JW: John Warwick; SK: Sanjeev Kumar

SS: Sam Spearing; CS: Carl Spezia