

Assessment 1

The purpose of this project is to help prepare you for landing a job in engineering. There is an interim due date of *Thursday, February 4* to schedule your interview. You must complete all six steps before *Thursday, February 18* in order to get any credit for this project.

1. Find a company that is currently hiring engineering co-ops or summer interns. Identify a position you think you might be qualified for within the next year.
2. By 8 am on *Thursday, February 4*:
 - a. Email me a link to the job or print out a copy and bring it to class.
 - b. Prepare a one-page resume for this co-op position and email me a first draft.
 - c. Make an appointment with me for your “interview” for this co-op position. The interview must be completed by 5 pm on *Thursday, February 18*.
3. Go to the Writing Center to get advice on your resume. Have someone at the Center sign a sheet of paper that you have visited the center. You will need to bring that to your interview.
4. Rewrite your resume with any advice the counselor provided. I will expect to see a significant difference between the resume you bring to your interview and the one you emailed me earlier.
5. Put together a degree plan that shows what classes you have taken, what classes you are taking, and what classes remain to get your degree. Be ready to answer questions about your degree plan during the interview.
6. Complete the interview with Dr. Andreas before 5 pm on *Thursday, February 18*. Be sure to bring your resume and dress professionally. Be prepared with your own questions to ask your “interviewer.”

The grading scheme is shown below. Anything turned in late will earn, at most, only half credit.

Item	Due Date	Points
Identify interesting co-op position	Feb 4 – 8:00 am	15
Submit first draft of one-page resume	Feb 4 – 8:00 am	10
Make appointment for interview	Feb 4 – 8:00 am	10
Rewrite resume and bring copy to interview	At interview	
Includes objective statement		10
Includes educational background		10
Includes work experience		10
Contains no spelling or grammatical errors		15
Complete interview by Feb 18 – 5 pm (at the latest)	At interview	
Provided documentation of resume work from Writing Center		20
Provided copy of degree plan		20
Dress is appropriate		10
Arrived on time		5
Provided adequate, honest answers to interviewer's questions		30
Had questions ready to ask interviewer		20
Had “one last thing” response ready		15
Total		200

Details on Degree Plans

This is one of the most important thing you will do this semester. We will discuss your degree plan after the interview. For your degree plan, I expect to see three separate spreadsheets.

- Course Correlation
 - One with all the classes you'll need to take at your university and their MCC equivalents (if any)
- Course Prerequisites
 - One with all the classes you plan to take at MCC, their prerequisites, what semester you'll take the class in, and what grade you got in the course
- Course Plan
 - One with your classes, each semester, all laid out as to when you're going to take what class
 - This should include whatever classes you are taking this semester, plus classes for however many semesters you plan to stay at MCC.

Examples of each of these three are below.

Course Correlation				
Recommended Semester	Texas Tech Course #	Texas Tech Course Name	MCC Course #	MCC Course Name
Fall Year 1	Chem 1107	Principles of Chem, I (Lab)	Chem 1411	GEN INORG CHEMISTRY I
Fall Year 1	Chem 1307	Principles of Chem, I	Chem 1411	GEN INORG CHEMISTRY I
Fall Year 1	Engl 1301	Essentials of College Rhetoric	Engl 1301	FRESHMAN COMPOSITION I
Spring Year 1	Engl 1302	Advanced College Rhetoric	Engl 1302	FRESHMAN COMPOSITION I
Spring Year 1	Engr 1206	Engineering Graphics	Engr 1204	ENGINEERING GRAPHICS
Fall Year 2	PolS 1301	American Govt, Org.	Govt 2305	NATIONAL GOVERNMENT
Fall Year 1	Hist 2300	History of US to 1877	Hist 1301	HISTORY OF U.S. TO 1877
Fall Year 1	Math 1351	Calculus I	Math 2413	CALCULUS I
Spring Year 1	Math 1352	Calculus II	Math 2414	CALCULUS II
Fall Year 2	Math 2350	Calculus III	Math 2415	CALCULUS III
Spring Year 1	Phys 1408	Principles of Physics I	Phys 2425	PRINCIPLES PHYSICS I
Fall Year 2	Phys 2401	Principles of Physics II	Phys 2426	PRINCIPLES PHYSICS II
Spring Year 1	Elective	(History)		
Spring Year 2	Elective	(Political Science)		
Spring Year 2	Elective	(Oral Communication)		
Fall Year 4	Elective	(Humanities)		
Spring Year 4	Elective	(Math or Science)	<Can this be Math 2320?>	<Differential Equations>
Spring Year 4	Elective	(Visual / Performing Arts)		
Spring Year 4	Elective	(Multicultural)	<this is a co-req, can be met by other classes>	
Spring Year 2	ME 2364	Engr Mechanics I	<Should Be Engr 2301>	<Statics>
Fall Year 3	ME 3331	Dynamics	<Should Be Engr 2302>	<Dynamics>
Spring Year 3	Department Elective		<Can this be ENGR 2304?>	<Programming for Engineers>
Fall Year 4	Department Elective		<Can this be ENGR 2305?>	<Circuits I for Electrical Engineering>
Fall Year 1	ME 1315	Intro to Mech Eng.	<Can this be ENGR 1201?>	<Intro to Engineering>
Fall Year 2	ME 2311	Materials Science	<Can this be ENGR 2432?>	<Mechanics of Materials>
Spring Year 4	Department Elective			
Spring Year 2	ME 2315	Computer Aided Analysis		
Spring Year 2	ME 2322	Engr. Thermo I		
Fall Year 2	EE 3301	General EE		
Spring Year 4	IE 3301	Engr Economic Analysis		
Spring Year 3	Math 3342	Math Stats for Engineers		
Spring Year 2	Math 3350	High Math Engr I		
Spring Year 3	ME 3164	Finite Analysis (Lab)		
Fall Year 3	ME 3165	Compu. Fluid Dyn (Lab)		
Fall Year 4	ME 3251	Thermal Fluid Sys (Lab)		
Fall Year 3	ME 3322	Engr Thermodynamics II		
Fall Year 3	ME 3328	Materials & Mech. (Lab)		
Spring Year 3	ME 3333	Dyn. Systems & Vibrations		
Spring Year 3	ME 3365	Intro to Design		
Fall Year 3	ME 3370	Fluid Mechanics		
Spring Year 3	ME 3371	Heat Transfer		
Fall Year 3	ME 3464	Engr Mechanics II		
Fall Year 4	ME 4234	Systems & Controls (Lab)		
Fall Year 4	ME 4334	Cont. Dynamic Sys.		
Fall Year 4	ME 4370	Engr. Design I		
Spring Year 4	ME 4371	Engr Design II		

Course Prerequisites			
MCC Equivalent Course # and Title	Prerequisites	Semester	Grade
Chem 1411 GEN INORG CHEMISTRY I	Math 1314	Fall 2009	
Engl 1301 FRESHMAN COMPOSITION I	None	Fall 2009	
Engl 1302 FRESHMAN COMPOSITION I			
-or- Engl 2311 Technical Communication	Engl 1302	Spring 2010	
Engr 1204 ENGINEERING GRAPHICS	None	Fall 2009	
Govt 2305 NATIONAL GOVERNMENT	None	Spring 2011	
Hist 1301 HISTORY OF U.S. TO 1877	None	Spring 2011	
Math 2413 CALCULUS I	MATH 2412 or MATH 1316	Fall 2009	
Math 2414 CALCULUS II	Math 2413	Spring 2010	
Math 2415 CALCULUS III	Math 2414	Fall 2010	
Phys 2425 PRINCIPLES PHYSICS I	Math 2413	Spring 2010	
Phys 2426 PRINCIPLES PHYSICS II	Phys 2426	Fall 2010	

Course Plan:

First Year			
Fall 2009		Spring 2010	
Course	Credits	Course	Credits
ENGR 1201 Introduction to Engineering	2	ENGR 1204 Engineering Graphics	2
MATH 2413 Calculus I	4	MATH 2414 Calculus II	4
CHEM 1411 General Chemistry & Lab I	4	PHYS 2425 University Physics & Lab I	4
ENGL 1301 Freshman Composition I	3	ENGL 2311 Technical Communication	3
GOVT 2305 National Government	3	GOVT 2306 Texas Government	3
Semester Credit Hours	16	Semester Credit Hours	16
Second Year			
Fall 2010		Spring 2011	
Course	Credits	Course	Credits
ENGR 2301 Engineering Mechanics—Statics	3	ENGR 2306 Fundamentals of Circuit Analysis & Lab	4
ENGR 2304 Engineering Programming	3	ENGR 2302 Engineering Mechanics—Dynamics	3
MATH 2415 Calculus III	4	MATH 2320 Differential Equations	3
PHYS 2426 University Physics & Lab II	4	HIST 1302 History Of US From 1877	3
HIST 1301 History Of US To 1877	3	SPCH 1311 Intro. to Speech Communication	3
Semester Credit Hours	17	Semester Credit Hours	16