

Course Overview

Course Information

Title: Endocrinology, CBIO 4730/6730 Room: 404B Biosciences Time: 11:00 a.m. - 12:15 p.m. TR

Contact Information

Name: DeLoris Wenzel Hesse Office: 712 Biosciences

Hours 12:30-1:30 p.m. Tues and Thurs
Other times available by appointment

E-mail: eLC private mail (best)

dwenzel@uga.edu (not recommended)

TA: Yuyang Jiang (Patrick) E-mail: yyjiang@uga.edu

Description and Learning Objectives

This course focuses on the role of hormones in regulating homeostasis, with an emphasis on molecular and cellular levels of control. Upon successful completion of this course, students will understand the role of the endocrine system in maintaining homeostasis; they will be able to evaluate and explain the pathophysiology of common endocrine disorders; and they will possess the basic foundational knowledge of endocrinology that is necessary for success in the their chosen field in the health sciences. These objectives require the mastery of factual materials as well as critical thinking and problem-solving skills.

Specific objectives are listed on eLearning Commons and are based upon national standards for medical physiology (http://www.the-aps.org/education/medphysobj/endo.htm). Assessment of student achievement of the learning objectives includes multiple choice, short answer, essay writing, and quality of contribution in problem-based learning sessions.

Course Requirements

Prerequisites

Introductory-level college biology, chemistry and biochemistry courses are highly recommended. In addition, strong college-level reading comprehension, time-management, organizational and study skills are necessary to succeed in this course.

Textbook and Materials

Basic Medical Endocrinology, H. Maurice Goodman, Academic Press, 4e/2009, ISBN: 978-0123739759

Colorado State Endocrinology Hypertext, http://arbl.cvmbs.colostate.edu/hbooks/pathphys/endocrine/index.html

CBIO 4730H/6730 Students

Students who are registered for CBIO 4730H or CBIO 6730 must write and critique a term paper or case presentation. Topics typically are chosen based upon individual interests. Please schedule an office appointment for instructions and suggestions no later than Thursday, September 17, 2007.

Quotations from references used in your paper must be put in quotation marks and the page number in the reference indicated in the citation. For example: "...from the reference used in the paper..." (A. Professor, 2008, p. 1). Material from references must not be paraphrased closely or extensively. Paraphrasing or use of quotations without attribution may be construed as plagiarism, which surely will disqualify a paper from receiving a passing grade. [Please note: I am not suggesting that any present student might be a plagiarist.]

Papers are to be typed double-spaced, and should not exceed about 6-8 pages (undergraduates) or 8-10 pages (graduate students) of text. Papers are submitted electronically in either a Microsoft Word format (.doc or docx), a portable document format (pdf) or a rich text format (rtf). Due dates are available on the eLC calendar.

Course Requirements

Quizzes

There are three formal exams scheduled this semester; the dates of these quizzes are available on the eLC calendar. These Chances to Succeed consist of a mixture of multiple choice, fill-in-the-blank, short answer and essay questions. The exact format of each quiz will be discussed in class prior to the scheduled exam time.

Team-based Work

Each student is assigned to a team at the beginning of the semester, and must work with this group to complete all team-based projects. Many of these projects are completed during the normally scheduled class time. These inclass projects may be pre-scheduled or unscheduled; a student who misses a project is not allowed to make up the assignment. Students may use class notes or textbooks to complete an assignment, though the use of electronic devises is prohibited.

Details regarding team assignments will be discussed in class.

Course Policies

Student Responsibilities

You are responsible for your own learning and education. You are expected to read assigned material before attending class and to make a valuable contribution to the classroom discussion. Irresponsible, passive persons obstruct the learning environment and interfere with the goals of responsible students.

Instructor Responsibilities

I am responsible for explaining the course goals and helping each student develop and attain personal goals for the course. In addition, I am responsible for planning and carrying out course instruction; facilitating discussion; expediting availability of lecture notes and webcasts; and returning assessment materials and email inquires in a timely fashion. In short, I here to help you learn.

Missed Class and Exams

All students are expected to attend all scheduled classes. If you miss an in-class team-based project, you will not be able to make up that score, regardless of your excuse. If you miss a lecture quiz, you will be able to reschedule that quiz if you (1) contact me within 24 hours of the quiz date and (2) provide a valid excuse. You must take this quiz before the next scheduled class period.

Academic Honesty

The Office of the Vice President for Academic Affairs provides all students registered at this University with a booklet titled "A Culture of Honesty at the University of Georgia". This booklet specifies the policies to which you must adhere. *All academic work must meet the standards contained in "A Culture of Honesty"*. Students are responsible for informing themselves about those standards before performing any academic work. If you have any questions regarding this policy, please contact me.

The link to more detailed information about academic honesty can be found at http://www.uga.edu/honesty/ahpd/culture honesty.htm

Lecture Schedule*

Introduction; What is endocrinology? Classification of Hormones; , Transport & Feedback Regulation Hormone biosynthesis: Proteins and Peptides Hormone biosynthesis: Steroids and Thyroid Hormones Hormone biosynthesis: Steroids and Thyroid Hormones Hormone biosynthesis: Steroids and Thyroid Hormones Hormone Signal Transduction (on eLC)	Lecture #	Topic	Readings	
Hormone biosynthesis: Proteins and Peptides Chapters 1 and 5	1			
Hormone biosynthesis: Steroids and Thyroid Hormones Hormone Signal	2		Chantana Land =	
How does a hormone exert its effects? Receptors and Signaling: GPCR and TKR	3	Hormone biosynthesis: Steroids and Thyroid Hormones	Hormone Signal	
5 Catalytic (kinase linked) Receptors; Intracellular Receptors 6 Multiple Organ Effects; Mechanisms of Disease 7 Endocrine Pancreas: Insulin 8 Insulin, Glucagon and Somatostatin 9 Diabetes Mellitus; Obesity; Lipoprotein Metabolism Controversy(optional) 10 Quiz 1 (Lectures 1-9) 11 Hypothalamus and Anterior Pituitary; The adrenal medulla 12 Catecholamines and Energy Regulation Adrenal Medillary 13 Adrenal Cortex: Cortisol 14 Adrenal Cortex: Aldosterone 15 Thyroid Hormones: Synthesis and Regulation 16 TH Actions 17 Evaluation of TH & Pathologies 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca²- and PO4 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Blood Pressure 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function Chapter 13	4		Intro to Endocrinology	
7 Endocrine Pancreas: Insulin 8 Insulin, Glucagon and Somatostatin 9 Diabetes Mellitus; Obesity; Lipoprotein Metabolism Controversy(optional) 10 Quiz 1 (Lectures 1-9) 11 Hypothalamus and Anterior Pituitary; The adrenal medulla Catecholamines and Energy Regulation Adrenal Medullary Hormones Glucocorticoids Adrenal Cortex: Cortisol Adrenal Cortex: Aldosterone Thyroid Hormones: Synthesis and Regulation 16 TH Actions TH Actions TH Biosynthesis 17 Evaluation of TH & Pathologies 18 Calcitum Metabolism: Parathyroid Hormone Chapter 10; PTH Calcitonin; Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS Chapter 9 AVP 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Chapter 13	5	Catalytic (kinase linked) Receptors; Intracellular Receptors	VICEIRINGING OF FICTION	
8 Insulin, Glucagon and Somatostatin 9 Diabetes Mellitus; Obesity; Lipoprotein Metabolism 10 Quiz 1 (Lectures 1-9) 11 Hypothalamus and Anterior Pituitary; The adrenal medulla 12 Catecholamines and Energy Regulation 13 Adrenal Cortex: Cortisol 14 Adrenal Cortex: Aldosterone 15 Thyroid Hormones: Synthesis and Regulation 16 TH Actions 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca²+ and PO₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Chapter 13 Chapter 13 Chapter 12 Chapter 13	6			
8 Insulin, Glucagon and Somatostatin 9 Diabetes Mellitus; Obesity; Lipoprotein Metabolism 10 Quiz 1 (Lectures 1-9) 11 Hypothalamus and Anterior Pituitary; The adrenal medulla 12 Catecholamines and Energy Regulation 13 Adrenal Cortex: Cortisol 14 Adrenal Cortex: Aldosterone 15 Thyroid Hormones: Synthesis and Regulation 16 TH Actions 17 Evaluation of TH & Pathologies 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca²+ and PO₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Blood Pressure 25 Endocrine Regulation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Chapter 13 Chapter 13 Chapter 12 Chapter 13 Chapter 13	7	Endocrine Pancreas: Insulin	Chapters 7 and 8	
10 Quiz 1 (Lectures 1-9) 11 Hypothalamus and Anterior Pituitary; The adrenal medulla 12 Catecholamines and Energy Regulation Adrenal Cortex: Cortisol Adrenal Cortex: Aldosterone 14 Adrenal Cortex: Aldosterone 15 Thyroid Hormones: Synthesis and Regulation 16 TH Actions 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Blood Pressure 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Chapter 13	8	Insulin, Glucagon and Somatostatin	Discovery and	
11 Hypothalamus and Anterior Pituitary; The adrenal medulla 12 Catecholamines and Energy Regulation Adrenal Cortex: Cortisol Adrenal Cortex: Aldosterone Adrenal Cortex: Aldosterone Mineralocorticoids 14 Adrenal Cortex: Aldosterone Mineralocorticoids 15 Thyroid Hormones: Synthesis and Regulation The Actions The Biosynthesis The Biosynthesis The Biosynthesis The Actions The Actions The Biosynthesis The Actions Chapter 10; PTH Calcitonin; Vitamin D: Mineral Metabolism Mineral Metabolism Disorders of Mineral Metabolism Disorders of Mineral Metabolism The Actions The Actions Chapter 10; PTH Calcitonin; Vitamin D: Mineral Metabolism Chapter 10; PTH Calcitonin; Vitamin D: Mineral Metabolism Chapter 9 AVP Sodium & Water Balance Sodium & Water Balance Endocrine Regulation of Blood Pressure Sexual Differentiation The Actions The Biosynthesis and Regulation of Particular Partic	9	Diabetes Mellitus; Obesity; Lipoprotein Metabolism	Controversy(optional)	
Catecholamines and Energy Regulation Adrenal Medullary Hormones Glucocorticoids Adrenal Cortex: Cortisol Adrenal Cortex: Aldosterone Mineralocorticoids 15 Thyroid Hormones: Synthesis and Regulation TH Actions TH Biosynthesis TH Biosynthesis TH Actions 18 Calcium Metabolism: Parathyroid Hormone Chapter 10; PTH 19 Vitamin D; Regulation of Ca2+ and PO4 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS Chapter 9 AVP 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Chapter 13	10	Quiz 1 (Lectures 1-9)		
12 Catecholamines and Energy Regulation Adrenal Medullary Hormones Glucocorticoids 14 Adrenal Cortex: Aldosterone 15 Thyroid Hormones: Synthesis and Regulation 16 TH Actions 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone Chapter 10; PTH 19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS Chapter 9 AVP 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function Regulation of Female Reproductive Cycle Adrenal Medullary Hormones Chapter 3 TH Biosynthesis TH Biosynthesis TH Actions Chapter 10; PTH Calcitonin; Vitamin D; Mineral Metabolism Chapter 12 Sexual Differentiation Chapter 12 Sexual Differentiation Chapter 13	11	Hypothalamus and Anterior Pituitary; The adrenal medulla	Chanters 2 and 4	
Adrenal Cortex: Cortisol Adrenal Cortex: Aldosterone Adrenal Cortex: Aldosterone Thyroid Hormones: Synthesis and Regulation Chapter 3 TH Biosynthesis TH Actions TH Actions TH Actions 18 Calcium Metabolism: Parathyroid Hormone Chapter 10; PTH Calcitonin; Vitamin D; Regulation of Ca ²⁺ and PO ₄ Coloriders of Mineral Metabolism Chapter 10; PTH Calcitonin; Vitamin D; Mineral Metabolism 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS Chapter 9 AVP Sodium & Water Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function Chapter 12 Sexual Differentiation TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Chapter 13	12	Catecholamines and Energy Regulation	Adrenal Medullary	
15 Thyroid Hormones: Synthesis and Regulation 16 TH Actions 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ Calcitonin; Vitamin D; Mineral Metabolism 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 13	13	Adrenal Cortex: Cortisol		
TH Actions TH Actions TH Biosynthesis TH Biosynthesis TH Actions 18 Calcium Metabolism: Parathyroid Hormone Chapter 10; PTH 19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS Chapter 9 AVP 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function Regulation of Female Reproductive Cycle Chapter 13	14	Adrenal Cortex: Aldosterone	<u>Mineralocorticoids</u>	
16 TH Actions 17 Evaluation of TH & Pathologies 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca²+ and PO₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle TH Biosynthesis TH Actions TH Biosynthesis TH Actions That Biosynthesis TH Actions That Calcitonin; Vitamin D; Mineral Metabolism Chapter 10; PTH Calcitonin; Vitamin D; Mineral Metabolism Chapter 9 AVP Sodium & Water Balance Chapter 12 Sexual Differentiation Chapter 13	15	·	Chanter 2	
17 Calcium Metabolism: Parathyroid Hormone 18 Calcium Metabolism: Parathyroid Hormone 19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Chapter 12 Sexual Differentiation Chapter 12 Sexual Differentiation 29 Control of Ovarian Function Chapter 13 Chapter 13	16		TH Biosynthesis	
Chapter 10; PTH 19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Chapter 12 Sexual Differentiation Chapter 13	17	Evaluation of TH & Pathologies	TH Actions	
19 Vitamin D; Regulation of Ca ²⁺ and PO ₄ 20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function Regulation of Female Reproductive Cycle Clacitonin; Vitamin D; Mineral Metabolism Chapter 9 AVP Sodium & Water Balance Chapter 12 Sexual Differentiation Chapter 12 Sexual Differentiation Chapter 12 Chapter 13	18	Calcium Metabolism: Parathyroid Hormone	Chapter 10, DTH	
20 Disorders of Mineral Metabolism 21 Quiz 2 (Lectures 11-20) 22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 13	19	Vitamin D; Regulation of Ca ²⁺ and PO ₄	Calcitonin; Vitamin D;	
22 Neurohypophyseal Hormones; AVP 23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 12 Sexual Differentiation Chapter 13	20	Disorders of Mineral Metabolism	<u>Mineral Metabolism</u>	
23 RAAS 24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 29 Regulation of Female Reproductive Cycle Chapter 12 Sexual Differentiation Chapter 12 Sexual Differentiation Chapter 13	21	Quiz 2 (Lectures 11-20)		
24 Integrated Regulation of Water and Salt Balance 25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 13	22	Neurohypophyseal Hormones; AVP		
24	23	RAAS		
25 Endocrine Regulation of Blood Pressure 26 Sexual Differentiation 27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 13	24	Integrated Regulation of Water and Salt Balance		
27 Hormonal Control of Testicular Function 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function Regulation of Female Reproductive Cycle Chapter 13	25	Endocrine Regulation of Blood Pressure		
27 From Sexual Differentiation 28 TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. 29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 13	26	Sexual Differentiation		
TBA Thanksgiving Break: Self study on effects of overeating on endocrine function. Control of Ovarian Function Regulation of Female Reproductive Cycle Chapter 13	27	Hormonal Control of Testicular Function		
29 Control of Ovarian Function 30 Regulation of Female Reproductive Cycle Chapter 13		ТВА	ocauai Differentiation	
30 Regulation of Female Reproductive Cycle Chapter 13		Thanksgiving Break: Self study on effects of overeating on endocrine function.		
30 Regulation of Female Reproductive Cycle	29	Control of Ovarian Function		
Final Quiz (Lectures 11-30)	30	Regulation of Female Reproductive Cycle	Chapter 13	
		Final Quiz (Lectures 11-30)		

^{*} All this information, with specific dates, may be found on the eLC calendar.

Grading

Your Grades: 4730

Your grades come from two sources: Lectures quizzes (80%) and team-based work (20%). Your score on team-based projects is determined by your peer evaluation score.

Your Grades: 4730H and 6730

Your grades come from three sources: Lecture quizzes (70%); team-based work (20%); and term paper or case study (10%). Your score on team-based projects is determined by your peer evaluation score.

Peer Evaluations

Each student is subject to five peer evaluations. Your score on team-based projects is calculated as follows: [Your team's score on the project] x [your peer evaluation percentage]. Each member of your team will evaluate your performance based upon the following rubric:

	Peer Evaluation	Section Number	Team Number
	← Write the names of the people	e on your team including your own	
	Does more or higher-quality wo Makes important contributions Helps to complete the work of to	ork than expected. that improve the team's work. teammates who are having difficulty onstrates behaviors described in the	row just above and just below.
Contributing to the Team's Work	 Keeps commitments and comp Fills in for teammates when it is 	s easy or important	
	 Does not do a fair share of the Misses deadlines. Is late, unpre 	onstrates behaviors described in the team's work. Delivers sloppy or incompared, or absent for team meetings uits if the work becomes difficult.	omplete work.
	 Improves communication amor Asks teammates for feedback a 	in teammates' ideas and contributions teammates. Provides encourage and uses their suggestions to impro	ment or enthusiasm to the team. ve.
Interacting with Teammates	Listens to teammates and resp Communicates clearly. Shares Respects and responds to feed	information with teammates. Partici	pates fully in team activities.
	Interrupts, ignores, bosses, or a Takes actions that affect teamn	nstrates behaviors described in the makes fun of teammates. nates without their input. Does not so does not interact with teammates.	hare information.
Karatan	 Makes sure that teammates are Gives teammates specific, time 	ne team and monitors the team's pro e making appropriate progress. ely, and constructive feedback. enstrates behaviors described in the	
Keeping the Team on Track	 Alerts teammates or suggests : 	the team's success. eam should be doing and notices pr solutions when the team's success onstrates behaviors described in the	is threatened.
	 Is unaware of whether the team Does not pay attention to team 	n is meeting its goals.	Tow Just above and just below.
	Believes that the team can do e	tanding work, even if there is no add excellent work.	
Expecting Quality	Encourages the team to do good	onstrates behaviors described in the od work that meets all requirements I enough to earn all available reward wheet its responsibilities.	
	Satisfied even if the team does Wants the team to avoid work, Doubts that the team can meet	even if it hurts the team.	row just above and just below.
Having	Demonstrates the knowledge, Acquires new knowledge or ski Able to perform the role of any	skills, and abilities to do excellent w ills to improve the team's performan team member if necessary.	Ce.
Relevant Knowledge,	Has sufficient knowledge, skills Acquires knowledge or skills nowledge.	onstrates behaviors described in the s, and abilities to contribute to the te eeded to meet requirements. sks normally done by other team me	am's work.
Skills, and Abilities	Missing basic qualifications nee	onstrates behaviors described in the eded to be a member of the team. knowledge or skills to contribute to	row just above and just below.

https://engineering.purdue.edu/CATME/index_files/AreasAssessed.htm (click on levels of performance)

Grading

Final Letter Grade

Your grade in this course is determined by your performance on class tests, assignments and team based projects. There is no curve.

Standard cutoffs are used to assign grades. The grade of an Incomplete is assigned only at the recommendation of the Office of Student Affairs. Any student convicted of academic dishonesty will receive a grade of "F".

Changes to Your Final Letter Grade

Final letter grades are changed based upon factual errors. No other criteria are acceptable. Please note that if there is a factual error in the score you see recorded on eLearning Commons, you have *one week* after that score is posted to have that error corrected.