

XIDS 2002: Dream Big – Solve Problems in Engineering & Applied Sciences

Semester/Year: Fall 2019
Time/Location: Monday 2:30 – 4:10 pm, TLC 2105
Instructor: Dr. Sharmistha Basu-Dutt
Office Location: TLC 2136
Office Hours: M, T, W, R: 9 – 10 am T, R: 1 – 3 pm
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COURSE DESCRIPTION

XIDS 2002 is a course designed to help students get excited about learning at West Georgia. In addition, it is our hope that this course helps you succeed academically as well as personally and socially during this semester and beyond. The fundamental focus of the class is to provide an understanding of the basic structure of critical thinking and of academic disciplines in order to increase learning in the university classroom. Students are required to attend class and to interact with their instructors and classmates. While students must take responsibility for their own learning, the course attempts to support and enhance that responsibility by making the class a learning community within the University.

The objective of the course is to introduce students to the engineering profession along with personalized advising related to their education and career objectives. On successful completion, students will:

- (i) Develop an appreciation for the nature of engineering,
- (ii) Distinguish between the different branches of engineering,
- (iii) Understand the benefits, challenges, and ethical standards of engineering in the real world,
- (iv) Obtain information about study, experience and practice opportunities in engineering,
- (v) Develop critical thinking, problem solving, oral and written communications skills.

COURSE OBJECTIVES

As a result of participating in this course, students should be able to:

1. adapt written and oral communication to specific rhetorical purposes and audiences.
2. recognize and begin to implement the skills necessary to become life-long, active learners through the exploration of an academic topic that focuses on a contemporary and/or enduring topic, question, or problem.
3. identify, evaluate, and use information, language, or technology appropriate to a specific purpose.

TEXTS, READINGS, INSTRUCTIONAL RESOURCES, AND REFERENCES

1. Wolf Essentials: https://issuu.com/thenavigatoruwg/docs/the_wolf_essentials_2019
2. Use the following websites for the various presentations:
 - (i) <http://www.careercornerstone.org/engineering/engineering.htm> for *Careers* presentation
 - (ii) <http://www.engineeringchallenges.org/cms/challenges.aspx> for *Grand Challenges* presentation
 - (iii) http://er.jsc.nasa.gov/seh/International_Space_Station.pdf for *ISS project* presentation
 - (iv) <http://spinoff.nasa.gov/> for *NASA Spinoff* presentation

ASSIGNMENTS

The First-Year Seminar Lab will be posted in CourseDen within a course called "XIDS 2002 Lab". Be sure to complete the three assignments in the Lab to get your full 15% credit.

Late work will not be graded. You must be in class to get credit for in-class presentations.

Grades: classwork/homework (255 points), FYS lab (45 points), midterm (100 points), final (100 points)

Total 500 points > 90.0%: A 80-89%: B 70-79%: C 60-69%: D <60.0%: F

TENTATIVE COURSE SCHEDULE

	Topic of Discussion (Points) - Due Date
August 19	Introduction to UWG Scavenger Hunt (20) - Aug 26
August 26	All About Engineering #1 (20) - Sept 16
September 2	<i>No class - Labor Day</i>
September 9	All About Engineering #2 (20) - Sept 16
September 16	Engineering Professional and Teams (20) - Sept 30
September 23	Engineering Disasters Analysis (20) - Sept 30
September 30	MIDTERM - Closed notes exam (100)
October 7	Careers Presentation Prep
October 14	In-class Careers Group Presentation (40) - Oct 14
October 21	In-class Grand Engineering Challenges Group Presentation (20) - Oct 21
October 28	In-class Engineering in the News Presentation (10) - Oct 28
November 4	<i>No Class - ISS Project Prep</i>
November 11	In-class ISS Project Group Presentation (75) - Nov 11
November 18	<i>No Class - NASA spinoff brochure (10) - Nov 18</i>
November 25	<i>No class - Thanksgiving Holiday</i>
December 2	FINALS - Closed notes exam (100)

ACADEMIC SUPPORT

Accessibility Services: Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If a student needs course adaptations or accommodations because of a disability or chronic illness, or if he/she needs to make special arrangements in case the building must be evacuated, the student should notify his/her instructor in writing and provide a copy of his/her Student Accommodations Report (SAR), which is available only from Accessibility Services. Faculty cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact Accessibility Services. Center for Academic Success: The Center for Academic Success provides services, programs, and opportunities to help all undergraduate students succeed academically. For more information, contact them: 678-839-6280 or cas@westga.edu University Writing Center: The University Writing Center assists students with all areas of the writing process. For more information, contact them: 678-839-6513 or writing@westga.edu

HONOR CODE

At UWG, we believe that academic and personal integrity are based upon honesty, trust, fairness, respect, and responsibility. UWG students assume responsibility for upholding the honor code and pledge to refrain from engaging in acts that do not maintain academic and personal integrity. These include, but are not limited to, plagiarism, cheating, fabrication, aid of academic dishonesty, lying, bribery or threats, and stealing. UWG maintains and monitors a confidential Academic Dishonesty Tracking System. This database collects and reports patterns of repeated student violations across all the Colleges, the Ingram Library, and the School of Nursing. Each incidence of academic dishonesty is subject to review and consideration by the instructor, and is subject to a range of academic penalties including, but not limited to, failing the assignment and/or failing the course. Student conduct sanctions range from verbal warning to suspension or expulsion depending on the magnitude of the offense and/or number of offenses. The incident becomes part of the student's conduct record at UWG. Additionally, the student is responsible for safeguarding his/her computer account. The student's account and network connection are for his/her individual use. A computer account is to be used only by the person to whom it has been issued. The student is responsible for all actions originating through his/her account or network connection. Students must not impersonate others or misrepresent or conceal their identities in electronic messages and actions. For more information on UWG Honor Code, please see the Student Handbook.

UWG EMAIL POLICY

UWG students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student's responsibility to check his or her email.

CREDIT HOUR POLICY

UWG grants one semester hour of credit for work equivalent to a minimum of one hour (50 minutes) of in-class or other direct faculty instruction AND two hours of student work outside of class per week for approximately fifteen weeks. For each course, the course syllabus will document the amount of in-class (or other direct faculty instruction) and out-of-class work required to earn the credit hour(s) assigned to the course. Out-of-class work will include all forms of credit-bearing activity, including but not limited to assignments, readings, observations, and musical practice. Where available, the university grants academic credit for students who verify via competency-based testing, that they have accomplished the learning outcomes associated with a course that would normally meet the requirements outlined above (e.g. AP credit, CLEP, and departmental exams).

HB 280 (Campus Carry)

UWG follows University System of Georgia guidance: http://www.usg.edu/hb280/additional_information
You may also visit our website for help with USG Guidance: <https://www.westga.edu/police/campus-carry.php>