

ENG 116-501 Wednesdays 8:30-10:15 (VAAS 140)

Instructor: Nancy Engler

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Office: VAAS 123

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OFFICE HOURS: In the Math Center/LRC M: 1:30-2:30

In VAAS 123 T/Th 1-3, Wed 10:15-11:15

Sect. CRN	Class Time	Days	Location
501 62325	8:30 AM – 10:15 PM	Wed.	VAAS 140

COURSE DESCRIPTION: The purpose of Introduction to Engineering, ENG 116, is to help students decide whether they would like to pursue an engineering degree through a description of the engineering profession, orientation to engineering education, introduction to the engineering process and to foster camaraderie amongst students with similar interests.

STUDENT LEARNING OUTCOMES:

With the successful completion of Engineering 116, a student will:

- Understand various engineering fields and the paths to pursue each one.
- Obtain basic skills and learning techniques essential for the successful pursuit of an engineering degree.
- Have an awareness of the importance of mathematics and physics concepts and calculations essential for the successful pursuit of an engineering degree.
- Have gained experience preparing and giving technical presentations.
- Have gained experience with group dynamics and the engineering design process through participation in hands-on exercises and projects.

EXPECTATIONS: Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be set on silent. Please step into the hall if you need to take a call during class.

ATTENDANCE POLICY: Every absence counts negatively towards your grade. If a student misses 2 classes in the first three weeks or 3 consecutive class periods, the student may be dropped from the class. The student bears full responsibility for the material and procedural information covered in class.

COURSE MATERIALS: Paper, pencil, scientific calculator (no graphing), and 3-ring binder or folder, laptop (optional) (These items may be shared with other classes.)

GRADING SCALE: (+ and – also available)

A = 90 - 100 % B = 80 - 89 % C = 70 -79 % D = 60 - 69 % F < 59 %	CR Credit 72 - 100 % NC No Credit < 72 %
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ATTENDANCE: 20%

CLASS PARTICIPATION: 10 %

ASSIGNMENTS: 30 %

INDIVIDUAL PRESENTATION: 10 %

FINAL PROJECT AND PRESENTATION: 30 %

Notes:

- Grading is subject to change based on activities throughout the semester
- Late assignments will be accepted with a penalty on your grade
- Lowest assignment grade will be dropped
- Plagiarism and cheating will not be tolerated in class

UNM's Policy on Academic Honesty: Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, including dismissal, against any student who is found responsible for academic dishonesty. Any student who has been judged to have engaged in academic dishonesty in coursework may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests or assignments, claiming credit for work not done or done by others; hindering the academic work of other students; and misrepresenting academic or professional qualifications within or outside the University.

ELECTRONIC DEVICE USAGE: While electronics such as laptops, tablets, and cell phones are very useful, please abstain from using them during class, unless directed by your instructor for class-related activities only. Please have your devices in silent mode. If you need to take a call, feel free to step out of the classroom.

SUPPORT SERVICES: The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials. Audiotapes and videotapes are available for student use through the library. The Learning Commons and STEM Center offer math & science tutoring at no cost to the student. The Writing Center can provide free help with all written assignments. (For Writing Center appointments email gillikin@unm.edu or call 925-8513.) Students who miss tutoring appointments may be denied future appointments.

UNM EMAIL/BLACKBOARD LEARN ACCESS: Beginning Fall 2015 semester, all UNM-Valencia students will need a UNM NetID which can be created by going to <http://it.unm.edu/accounts/>. UNM NetID will give you access to the computer labs on campus, blackboard learn and UNM Email.

COMPUTER LAB RESPONSIBILITY: Please be advised that the use of computer labs on UNM properties is governed by “Policy 2500: Acceptable Computer Use” which can be found at <http://policy.unm.edu/universitypolicies/2000/2500.html>. Food and drink are also prohibited in any computer lab on campus. Anyone violating these policies is subject to possible suspension and loss of computer lab privileges.

DISABILITY STATEMENT: If you have a documented disability, the Equal Access Services office will provide me with a letter outlining your accommodations. I will then discuss the available accommodations with you to determine the best learning environment. If you feel that you need accommodations, but have not documented your disability, please contact Jeanne Lujan, the coordinator for Equal Access Services at 925-8910 or jmlujan@unm.edu.

TITLE IX: In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the Department of Education (see pg 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/universitypolicies/2000/2740.html>

IMPORTANT DATES with respect to this class:

- Individual Presentations*: TBD
- Labor Day: September 2nd, 2019
- Last date to drop without a “W”: September 9th, 2019
- Fall Break: October 10th - 11th, 2019
- Final Projects and Presentations due: TBD
- There will be NO Final Exam!

*Individual presentations: The students will create a 15-minute presentation/discussion on a topic related to engineering. Powerpoints or visuals are encouraged, but not required. Be prepared to answer questions. Every student must participate in the discussion.

** All homework assignments must be emailed before the deadline by 5:00 pm.

CLASS SCHEDULE:

Week	Wednesday
August 21	Syllabus and Class Project Engineering and Leadership
August 28	Measurements Lab Engineering Units
September 4	Intro to Excel (Presentations 1&2) [HW 1 due]
September 11	Data and Graphs in Excel (Presentations 3&4)
September 18	Introduction to Boe Bots and Programming in Pbasic (Pres 5&6) [HW 2 due]
September 25	Boe Bots and Programming in Pbasic (Pres 7&8)
October 2	Intro to circuits [HW3 due]
October 9	Intro to Mech. Drawing
October 16	Mech. Drawing cont. [HW4 Due]
October 23	Topic to be determined by student interest
October 30	Power of Triangles [HW5 due]
November 6	Hydrogen Power
November 13	Intro to 3D Printing [HW6 due]
November 20	In-Class Activity
November 27	Project Day [HW 7 Due]
December 4	Project Day
December 10	Good Luck with your finals!