

3D PRINTING PROJECT SYLLABUS CAD 294

INSTRUCTOR: Alex Sanchez

alexs@unm.edu

Office Hours:

Tues 1:00-2:30

Phone: 925-8716

COURSE DESCRIPTION: This is the capstone course for the 3D printing mini-certificate. CAD 293 is an independent study course for students with existing modeling and 3D printing skills. Students are required to log eight hours per week (two of the eight hours must be completed in the CAD/3D Printing lab). The 3D Printing project(s) and project milestones are chosen in consultation with the instructor.

Prerequisites: CAD 171, CAD 191 and CAD 150

TEXT: No text

ATTENDANCE: Students are required to log two of the eight hours in the CAD/3D Printing lab and meet once a week with the instructor.

MAIN OBJECTIVES:

1. Learn how to plan and execute a complex 3D printing project.
2. Learn how to use software and hardware related to 3D printing.
3. Learn how to 3D print efficiently.
4. Learn how to track 3D printing projects.

GRADING

Each week you will turn in a time sheet (log) listing the date and start/end times spent on your 3D printing projects (see briefing sheet for details). You are required to log a minimum of **eight hours a week** on your projects. Two of the eight hours must be completed in the CAD/3D printing lab. I will email grades to you on a weekly basis.

Log showing required 8 hours of project time	8 points
Photos of 3D prints/print process sheets	1 point
Weekly meeting with instructor	1 point

Weekly total 10 points

For a sixteen week semester, you will receive a possible 160 points (10 points for each week of the semester).

Computer Lab Responsibility:

Please be advised that use of computer labs on UNM properties is governed by "Policy 2500: Acceptable Computer Use" which can be found at <http://policy.unm.edu/university-policies/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.

UNM Net ID

Beginning Fall 2015 semester, all UNM-Valencia students will be required to have a UNM Net ID which can be created by going to: <http://it.unm.edu/accounts/>

. UNM Net ID will give you access to the computer labs on campus, blackboard learn and UNM Email. Make sure to update this information as your method of contact under personal information on Lobo Web.

Academic Integrity

Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy:

<https://policy.unm.edu/regents-policies/section-4/4-8.html>. The policy states:

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, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

Academic Dishonesty is defined as:

"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; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Students with disabilities should notify me of special needs at the beginning of the semester.

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 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

Supplies:

1GB flash memory recommended

You will need to have a digital camera or smart phone to take pictures of your prints

1" ring binder for handouts, project logs and print setup sheets