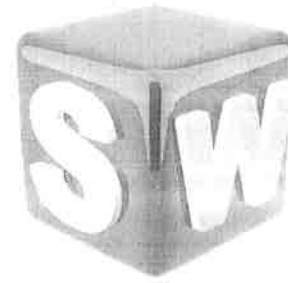


3D MODELING SEMESTER SYLLABUS



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The course will: emphasize advanced engineering modeling using 3D computer software.

Covers graphic communication used throughout technical and engineering fields. Applies spatial analysis and engineering design concepts using parametric modeling software. By the end of the year we will have covered all of DRF 210 coursework through Chemeketa. 3 college credits.

The student will:

Draft using computers and programs to create objects.

Requirements:

All students must complete the following requirements before beginning to make a project.

1. Complete all assignments.
2. Complete all modeling tests.
3. Demonstrate machinery knowledge before printing a project.

Grades:

Grades will be earned with the following:

90%-100%=A; 80%-89%=B; 70%-79%=C; 60%-69%=D; < 59%=F

Points will be available in the following categories:

Drafting Assignments	75%
Tests	25%

Course Guidelines:

Attend regularly and on time

Respect the rights of others, don't be distracting

If absent for any reason, the student is responsible for all make up work

Student Expectations: Safe, Respectful, & Responsible.

Standards used for Grading:

EN01 Use effective communication skills with a variety of audiences.

EN03 Use technology such as computers and design software to solve engineering problems.

MNPJ01 Apply measurement and scale concepts in drafting and design.

MNPJ02 Interpret engineering documents and control documents.

MNPJ03 Create technical sketches using drafting procedures.

MNPJ04 Use a CADD system and procedures.

MNPJ05 Detail projection views/components.

MNPJ06 Explore mechanical drafting/design concepts and problems.

MNPJ07 Demonstrate drafting/design concepts as related to basic manufacturing processes.

MNPJ08 Incorporate geometric dimensioning and tolerancing (GDT) standards.

MNPJ09 Depict assemblies of components.