

# DRAFTING (DRF)

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## **DRF-141 Engineering Drawings (2)**

Introduces the fundamentals of drafting, such as graphic language and vocabulary, orthographic projection, drawing layouts, section views, title blocks and dimensioning. Familiarizes students with the tools and techniques of the trade. Covers creating engineering drawings that are submitted to be manufactured. Arts & Sciences Elective Code: B

*Hours per week:* 2.0 lecture

## **DRF-142 Engineering Design I (3)**

Provides the opportunity to gain an understanding of drawing mechanical parts used in design. Problem-solving approach is used to work out problems on the drafting board, resulting in a final drawing. Topics selected are: instrument instruction, lettering, geometric construction, sketching, multiview projection, sectional views, calculating weight of a mechanical part, auxiliary views, isometrics, obliques, weld symbols, threads and fasteners, dimensioning and tolerancing. Arts & Sciences Elective Code: B

*Hours per week:* 2.0 lecture, 2.0 lab

*Pre/corequisite:* Take DRF-141.

## **DRF-143 Engineering Design II (3)**

Provides the opportunity to gain an understanding of drawing mechanical parts used in design. Covers detail drawing, bill of material, weight calculations, weld symbols, assembly drawings, exploded assembly drawings, structural, threads and fasteners, dimensioning and tolerancing. Arts & Sciences Elective Code: B

*Hours per week:* 2.0 lecture, 2.0 lab

*Prerequisite:* Take DRF-141.

*Corequisite:* Take CAD-140.

## **DRF-924 Honors Project (1)**

Allows a qualified honors student to pursue a special concentration of study under the guidance of a faculty member. Requires completion of an honors project contract. May be taken more than once. Arts & Sciences Elective Code: B; Comments: Requires approval of supervising professor and dean

*Hours per week:* 1.0 lecture

## **DRF-928 Independent Study (1-3)**

Provides readings, papers and basic research or other projects under the individual guidance of a staff member. Arts & Sciences Elective Code: B; Comments: Permission of instructor, dean

*Hours per week:* 1.0 lecture