



# CAREER & TECHNICAL EDUCATION AREA



# VINCENNES UNIVERSITY PRODUCT DESIGN AND PRODUCTION

## PROGRAM DESCRIPTION

Take a minute to look around. How many manufactured items did you see? Each of those items was designed to the smallest detail. A drawing was created for each of these designs to fully specify its construction.

Working within the engineering department, Mechanical Drafters and Designers discover creative solutions to real-world problems. They design and document these solutions using 3D Computer Aided Drafting (CAD) software. Drafters commonly begin their careers by detailing drawings and revising existing CAD models. As they gain experience, they move toward lead design roles and even into management positions.

Students in this program learn the fundamentals of mechanical drafting using both manual drafting instruments and CAD software. Essential topics such as manufacturing processes, plastic part design, and tooling design are also stressed. Industry standards that enable accurate communication in a global economy are reinforced throughout the curriculum. Hands-on experience in 3D printing and 3D laser scanning enables our students to keep pace with the latest advances in technology.

## ADDITIONAL EDUCATION/TRAINING AVAILABLE AFTER VU:

No additional training is required beyond the two year ASCT degree. However, both VU and Purdue BS degrees are available at the VU campus. Depending on the student's area of interest, courses in areas such as Materials Science, Thermodynamics, Fluid Mechanics, Acoustics and many others may be relevant to their industry of choice.

## OCCUPATIONS UPON COMPLETION OF PROGRAM:

Mechanical Drafter, Product Designer (Engines, ATVs, Refrigeration, Mechanical Components, Household Appliances, Furniture, Medical Supplies, Plastic Components, etc.), Tooling Designer (Jigs, Fixtures, Stamping Dies, Injection Molds, etc.)

## ADDITIONAL INFO

GRADE LEVEL: 11TH OR 12TH

LENGTH OF PROGRAM: 1 YEAR - 1/2 DAY

HS CREDITS PER SEMESTER: 3

HS CREDITS PER YEAR: 6



[VU PRODUCT DESIGN AND PRODUCTION WEBSITE](#)

## DOE CODE:

7140 - Principles of Digital Design

7141 - Digital Design Graphics

5550 - Graphic Design and Layout

## COURSE INFO



### FALL SEMESTER COURSES:

**DRAF110 - Mechanical Drafting**

(3 Cr Hrs) MW 8:00 am – 10:50 am

**DRAF140 - Introduction to CAD**

(3 Cr Hrs) TR 8:00 am – 9:50 pm



### SPRING SEMESTER COURSES:

**DRAF155 - Advanced Mech Drafting**

(3 Cr Hrs) MW 8:00 am -10:50 am

**DRAF230 - Tolerancing Applications**

(3 Cr Hrs) TR 8:00 am – 9:20 am



### FEES:

Course Fees:

Fall Semester - TBD

Spring Semester - TBD

Tuition: Twin Rivers pays ALL CTE course tuition. Student pays for fees and books.

VU ADVISOR: AUDREY KOCKER

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\*FEES ARE APPROXIMATE AND COULD VARY FROM YEAR TO YEAR