

COMPUTER AIDED DESIGN AND DRAFTING (CADD)

Award: Associate of Applied Sciences Degree

No. of credits required: 62

Contact: For more information, contact Steve Johnson, 443-412-2641, sjohnson@harford.edu; or Advising, Career, and Transfer Services, 443-412-2301.

PROGRAM DESCRIPTION:

This program provides students with a sound knowledge of Computer Aided Design and Drafting (CADD) through familiarization with the computer, peripheral devices and specialized software. The program prepares students to function as CADD technicians and skilled operators who assist engineers and architects in all design and drawing preparation phases.

REQUIRED COURSES:

Number	Title	Credits
CADD 101	Introduction to CADD	3
CADD 102	Intermediate CADD	3
CADD 252	Customizing AutoCAD	3
CIS 102	Intro. to Information Sciences (GI)	3
CMST 101	Speech Fundamentals (GI)	3
ENG 101	English Composition (GE)	3
ENG 209	Technical Writing	3
ENGR 101	Engineering Drawing I	2
ENGR 203	Engineering Materials or	
ID 206	Materials and Finishes	3
MATH 101	College Algebra (GM)	3
MATH 103	Trigonometry (GM)	3
Arts/Humanities Elective (A/H) (GH)		3
See General Education Course Listings		
Behavioral/Social Science Elective (B/SS) (GB)		6
See General Education Course Listings		
Biology/Phys. Lab Science Elective (GL)		4
See General Education Course Listings		
CADD Electives (choose 12 credits)*		12
ID 126	Advanced CADD for Interior Design	
CADD 222	Geometric Dimensioning & Tolerancing	
CADD 250	Solid Modeling	
CADD 260	AutoLISP for AutoCAD	
CADD 265	Solid Works	
CADD 273	Coop Ed: Comp Aided Design & Drafting	
Career Based Elective+		3
+ Choose from any BUS, ACCT, CIS, ELEC or ID courses, except ID 125.		
Physical Education Elective		1
Physical Education Fitness Elective		1
Total		62

* Certain CIS classes can be used as CADD electives. Recommended courses include CIS 111, CIS 118, CIS 135, CIS 145, CIS 205, CIS 207, and CIS 221.

RECOMMENDED SEQUENCE (for 2 year completion):

First Semester	Credits	Second Semester	Credits
CADD 101	3	CADD 102	3
CIS 102	3	CMST 101	3
ENG 101	3	MATH 103	3
ENGR 101	2	B/SS Elective (GB)	3
MATH 101	3	Career Based Elect+	3
PE Fitness Elective	1	PE Elective	1
Total		15	

Third Semester	Credits	Fourth Semester	Credits
ENG 209	3	ENGR 203 or	
CADD 252	3	ID 206	3
CADD Elective*	3	A/H Elective (GH)	3
B/SS Elective (GB)	3	CADD Electives*	9
Bio./Phys. Lab		Total	
Sci Elec (GL)	4	15	
Total		16	

EMPLOYMENT INFORMATION:

CADD has generally replaced conventional drafting practices, with the number of CADD positions steadily increasing. Employment opportunities will continue to grow. Designers, architects, drafters, engineering technicians, and engineers will be required to operate CADD systems effectively and proficiently in order to be functional in their respective or prospective positions.

Note: The following codes identify courses which satisfy the General Education Degree Requirements:

- (GB)** Behavioral/Social Science*
- (GE)** English Composition
- (GH)** Arts/Humanities
- (GI)** Interdisciplinary and Emerging Issues
- (GL)** Biological/Physical Laboratory Science
- (GM)** Mathematics
- (GS)** Biological/Physical Science

*For AS, AA, and AAT degrees, Behavioral/Social Science and Arts/Humanities electives must be selected from two different disciplines.

TO SATISFY THE DIVERSITY REQUIREMENT:

Associate degree students must complete one 3-credit diversity course **(D)**. It is recommended that students select one of the 3-credit **(GB)**, **(GH)**, **(GI)** course electives from those that also appear on the approved list of diversity course graduation requirements.