PROGRAM MAP

KELLOGG COMMUNITY COLLEGE

AREA OF STUDY **Science, Mathematics & Engineering**

Computer Aided Drafting & Design Associate in Applied Science Degree (220)

BEGIN

SEMESTER 1 – FALL	CREDITS	PREREQUISITE
☐ DRAF 101 Engineering Graphics	4 credits	
☐ ENGL 151 Freshman Composition	3 credits	Prerequisite: see catalog
☐ FYS 101 First Year Experience	1 credit	Prerequisite: see catalog
☐ Global Awareness Elective	3 credits	
☐ OIT 161 Applications Software	3 credits	Prerequisite: see catalog

SEMESTER TOTAL CREDITS 14

SEMESTER 2 – SPRING	CREDITS	PREREQUISITE
☐ DRAF 120 Machine Drafting	3 credits	Prerequisite: DRAF 101
☐ DRAF 181 Applications in AutoCAD	3 credits	Prerequisite: DRAF 101
☐ DRAF 234 SolidWorks	3 credits	Prerequisite: DRAF 101
☐ COMM 101 Foundations of Interpersonal Communication, OR COMM 111 Business and Technical Communication, OR COMM 207 Public Speaking	3 credits	Prerequisite: see catalog
☐ MATH 125 College Algebra	4 credits	Prerequisite: see catalog

SEMESTER TOTAL CREDITS 16

SEMESTER 3 – SUMMER	CREDITS	PREREQUISITE
☐ INT 35030 Robot Programming Fanuc	0.75 credit	
☐ INEL 20010 Electrical Motor Controls	0.42 credit	
☐ INEL 20020 Manual Motor Controls	0.50 credit	
☐ INWE 05020 Joints Welds Positions	0.13 credit	
☐ INWE 40010 Explaining GMAW	0.29 credit	
☐ INWE 40020 Start Arc Run Beads GMAW	0.17 credit	
☐ INMT 20030 Machinist Scale	0.08 credit	
☐ INMT 25010 Micrometers	0.13 credit	
☐ INMT 25020 Calipers	0.17 credit	
☐ INMT 25050 Dial Indicators	0.13 credit	
☐ INMT 25080 Height Gage	0.17 credit	
☐ INMT 30010 Shop Math Speeds and Feeds	0.21 credit	
☐ INMT 30030 Drilling on the Drill Press Counterbore Spotface	0.17 credit	
☐ INMT 30050 Countersink	0.21 credit	
☐ INMT 35030 Facing on the Lathe	0.21 credit	
☐ INMT 35050 Parallel Turning on the Lathe	0.21 credit	
☐ INMT 45020 Fly Cutter End Mill Square a Block	0.21 credit	

SEMESTER TOTAL CREDITS 4.16

CONTINUE

SEMESTER 4 – FALL	CREDITS	PREREQUISITE
☐ DRAF 141 Descriptive Geometry	3 credits	Prerequisite: DRAF 101
☐ DRAF 221 Architectural Drafting	3 credits	Prerequisite: DRAF 101
☐ DRAF 252 Advanced SolidWorks	3 credits	Prerequisite: DRAF 234
☐ ENTE 215 Material Science	3 credits	
☐ MATH 132 Trigonometry	3 credits	Prerequisite: see catalog

SEMESTER TOTAL CREDITS 15

SEMESTER 5 – SPRING	CREDITS	PREREQUISITE
☐ DRAF 211 Dimensioning and Tolerancing	3 credits	Prerequisite: DRAF 234
☐ DRAF 262 Engineering Design	3 credits	Prerequisite: DRAF 252
☐ Creativity Elective	3 credits	
☐ Healthy Living Elective	2-3 credits	
☐ PHYS 111 College Physics 1	4 credits	Prerequisite: see catalog

SEMESTER TOTAL CREDITS 15-16

You're Finished! TOTAL CREDITS 64.16-65.16

NOTES

INT 3530 through INMT 45020 are courses/modules that are taught at the Regional Manufacturing Technology Center on 450 Hill Brady Road in the Fort Custer Industrial Park in Battle Creek, Michigan. These modules are offered in the open-entry/open-exit format and are offered every semester. All of the listed modules are required for the Computer-Aided Drafting and Design Technology, AAS.

Note: ART 110 is recommended as the Creativity elective for Ferris State University's Product Design Engineering program. COMM 207 is the only transferable communication course for Ferris State University's Product Design Engineering Program. PSYC 201 is recommended for the Healthy Living elective for Ferris State University's Product Design Engineering program.

Check the KCC online Academic Catalog for degree and prerequisite criteria.

See catalog or faculty advisor for a list of technical electives.

Students should seek advice from their Academic Advisor to ensure they are meeting program requirements.

It is the student's responsibility to verify the Michigan Transfer Agreement and all transfer courses with the transfer institution.

Information contained in the mapping document was, to the best knowledge of Kellogg Community College staff, considered correct when published. However, this mapping document should not be considered a contract between Kellogg Community College and any student.