

# Southern State Community College

## Mechanical Design Technology (460C)

AAS

2025-26	REQUIRED COURSES:	Semester Hours	Type of Credit	CTAN	ODE High School Course Alignment
Year One/Fall Semester					
ENDS 1100	Introduction to Engineering	2			
ENDS 1140	Introduction to Engineering Graphics and AutoCAD	3	CTAG	CTEGT002	ODE 175001 Engineering Design
CSCI 2218	Excel	3	Bilateral		Excel Certification
ENGL 1101	English Composition I	3	OT36		
EENG 1105	DC Circuits & Devices	3	CTAG	CTEET001	ODE 175105 DC Electronic Circuits ODE Prerequisite: College Algebra. Career-technical students from CT <sup>2</sup> approved institutions will not receive credit or credit hour value for DC Circuits until he/she has completed the requirement for MATH 1120 or 1141 at the matriculating institution
MATH 1120	Technical Mathematics	3	CCP Option		
Year One/Spring Semester					
ENDS 2230	Advanced Concepts in 2D AutoCAD	3	CTAG	CTMET005	ODE 175006 Computer Integrated Manufac
ENDS 2233	Computer Aided Manufacturing	3	CTAG	CTMET006	ODE 176007 CNC
COMM 1115	Fundamentals of Effective Speech	3	OT36		
PHYS 2201	General Physics (Algebra Based)/Lab	5	OT36		
ENGL 2205	Technical Report Writing	3	CCP Option		or MATH 1141
Year Two/Fall Semester					
ENDS 2201	Engineering Mechanics: Statics	3			
ENDS 2205	Hydraulics & Pneumatics	3			
ENDS 1143	Introduction to Project Management and Product Design	3			
ENDS 2219	Tool Design & Manufacturing	3			
ENDS 2231	Introduction to 3D AutoCAD	3			
Year Two/Spring Semester					
ENDS 2232	Introduction to SolidWorks	3			
ENDS 2203	Strength of Materials	3			
ENDS 2261	Manufacturing Materials & Processes	3	CTAG	CTMET004	ODE 175003 Manufacturing Operations
ENDS 2299	Design Research Project	3			
XXXXXX	General Elective (Social Science or Humanities)	3	OT36		

**COLLEGE CREDIT OPPORTUNITY (from above)- depends on high school course completion**

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ENGL 1101	English Composition I	3	OT36		
ENGL 2205	Technical Report Writing	3	CCP Option		
MATH 1120	Technical Mathematics	3	CCP Option		(or MATH 1141)
PHYS 2201	General Physics (Algebra Based)/Lab	5	OT36		
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