

BSET Mechanical Engineering Technology Checksheet

Rev: Original
Catalog Date: 2025-2026Last Name: _____
First Name: _____
Student ID: _____

BSET Mechanical Engineering Technology 2+2 Checksheet

Overall GPA: _____
Major GPA: _____Rev: Original
Catalog Date: 2025-2026
Community College: _____
Degree Program: _____Last Name: 0
Student ID: 0

Upper-Level Courses

Junior Fall	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	Community College Prerequisites							
								UNC Charlotte Required Courses		UNC Charlotte					
		ETME 2290	Machining Laboratory	1		Sophomore Standing		Precalculus (MAT 172 preferred)							
		ENGL 2116	Intro to Technical Communication	3				3 MATH 1103*	MAT 172, 175					NO	
		ETME 2200	Project Design and Management	3				6 MATH 1241*	MAT 271					NO	
		ETME 3107	Kinetics	3			ENGR 1300*	ETME 2101*, ETME 2207, ETGR 2272						NO	
		ETME 3123	Strength of Materials	3			ETME 2101*		Physics I +Lab	3 PHYS 2101	PHY 151, 251				NO
		ETME 3133	Fluid Mechanics	3			ETME 2101*, MATH 1241		Physics II +Lab	3 PHYS 1102	PHY 152, 252				NO
Total: 16								1 PHYS 1102L							
		SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	Foundations of Math and Science for Engr						
		MATH 2171	Differential Equations or Engineering Analysis III	3			MATH 1242* or ETGR 2272*		CAD Fundamentals	3 ENGR 1301	CHM 151				NO
		ETME 2600	Prof. Development Seminar for Engr. Technologists	1					Applied Engineering Materials	3 ETME 2111	DEFT 170				NO
		ETME 3200	Junior Design Practicum	3			ETME 2200, ETME 2290	WRDS 1103* OR WRDS 1104*, ETME 3123	Applied Manufacturing	3 ETME 2141	EGR 250, MEC 145, 180				NO
		ETME 3123L	Stress Analysis Lab	1					Applied Mechanics I	3 ETME 2142	MEC 161				NO
		ETME 3250	Principles of Thermal Engineering	3			ETME 3133, ETGR 2272*	ETME 2141, ETME 2207, ETME 3123	Kinematics	3 ETME 2101	MEC 210, 250, 251, EGR 250, 251				NO
		ETME 3213	Machine Design 1	3					Circuit Fundamentals	3 ETME 2207	MEC 130, 275				NO
Total: 14								3 ETME 2220	Other MET Specific / Technical Classes	ELC 112, ELC 131, EGR 215					
		SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments							
		ETME 3150	Applied CAD Modeling and Simulation	3			ETME 1111*, ETME 2102, ETME 3123								
		ETME 4100	Mechanical Capstone Design I (d)	2				See Footnote (e) below							
		ETME 4250	Thermal Engineering Applications	3			ETME 3250								
		Restricted Elective			3			See Footnote (b) below							
		Restricted Elective			3			See Footnote (b) below							
Total: 14															
		SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments							
		ETME 2222	Instrumentation and Measurements	3			ETME 2220								
		ETME 4200	Mechanical Capstone Design II	2			ETME 4100								
		ETME 4250L	Thermal Fluids Lab	1			WRDS 1103 OR WRDS 1104*, ETME 3250								
		Restricted Elective			3			See Footnote (b) below							
		Restricted Elective			3			See Footnote (b) below							
Total: 12															

Course in *italics* can be taken as a pre or co requisiteCourse in **bold** must be taken as a co requisite

* = grade of C or better required in prerequisite course

Footnotes:

(a) DegreeWorks will state which course(s) you still need to complete the requirement. Please follow DegreeWorks when registering for general

(b) Major elective courses are chosen jointly by student and advisor from the course list approved by the Department as major electives. Other courses related to the student's professional interests and career goals may be considered but all such requests to take alternative major

elective courses must be approved in writing by the ETCM Department.

(c) These courses must be completed with a grade of C or better.

(d) ETME3200, Senior Standing, completion of all lower division courses and any deficiencies, and approval by department. *ETME3113, ETME3213, ETME 3150 and ETME3250*