

BSET Mechanical Engineering Technology Checksheet

Last Name: \_\_\_\_\_  
First Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

Rev: Original  
Catalog Date: 2025-2026  
Overall GPA: \_\_\_\_\_  
Major GPA: \_\_\_\_\_

BSET Mechanical Engineering Technology 2+2 Checksheet

Last Name: \_\_\_\_\_ 0  
Student ID: \_\_\_\_\_ 0

Rev: Original  
Catalog Date: 2025-2026  
Community College: \_\_\_\_\_  
Degree Program: \_\_\_\_\_

Upper-Level Courses								UNC Charlotte Required Courses		UNC Charlotte					
Junior Fall	SEM & YR	Course #	Course Title	Hrs	Grade		Prerequisites	Comments	Hrs	Course	Grade	NCCCS Acceptable Course	Course	Grade	MET
		ETME 2290	Machining Laboratory	1			Sophomore Standing		3	MATH 1103*		MAT 172, 175			NO
		ENGL 2116	Intro to Technical Communication	3						MATH 1241*		MAT 271			NO
		ETME 2200	Project Design and Management	3			ENGR 1300*		6	ETGR 2272 or MATH 1242*		MAT 272			NO
		ETME 3107	Kinetics	3			ETME 2101*, ETME 2207, ETGR 2272		3	PHYS 2101		PHY 151, 251			NO
		ETME 3123	Strength of Materials	3			ETME 2101*		1	PHYS 2101L					
		ETME 3133	Fluid Mechanics	3			ETME 2101*, MATH 1241		3	PHYS 1102		PHY 152, 252			NO
	Total: 16								1	PHYS 1102L					
Junior Spring	SEM & YR	Course #	Course Title	Hrs	Grade		Prerequisites	Comments	Foundations of Math and Science for Engr <td>3</td> <td>ENGR 1301</td> <td>CHM 151</td> <td></td> <td></td> <td>NO</td>	3	ENGR 1301	CHM 151			NO
		MATH 2171	Differential Equations or Engineering Analysis III	3			MATH 1242* or ETGR 2272*		3	ETME 2111	DFT 170				NO
		ETME 2600	Prof. Development Seminar for Engr. Technologists	1					3	ETME 2141	EGR 230, MEC 145, 180				NO
		ETME 3200	Junior Design Practicum	3			ETME 2200, ETME 2290		3	ETME 2142	MEC 161				NO
		ETME 3123L	Stress Analysis Lab	1			WRDS 1103* OR WRDS 1104* , ETME 3123		3	ETME 2101	MEC 210, 250, 251, EGR 250,251				NO
		ETME 3250	Principles of Thermal Engineering	3			ETME 3133, ETGR 2272 *		3	ETME 2207	MEC 130, 275				NO
		ETME 3213	Machine Design I	3			ETME 2141, ETME 2207, ETME 3123		3	ETME 2220	ELC 112, ELC 131, EGR 215				NO
	Total: 14								Other MET Specific / Technical Classes						
Senior Fall	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 (c) 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														
Senior Spring	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														

Footnotes:

(a) DegreeWorks will state which course(s) you still need to complete the requirement. Please follow DegreeWorks when registering for general elective courses must be approved in writing by the ETCM Department.

(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 completed with a grade of C or better.

(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

Course in *italics* can be taken as a pre or co requisite  
Course in **bold** must be taken as a co requisite  
\* = grade of C or better required in prerequisite course