Program: BS Mechanical Engineering	Degree Level (e.g., UG or GRtificate, UG major, master's program, doctoral prograndd Major		
Department:			

	consideration of public health, safety, and welfare, a	Developing: MENG 1000 Design Thinking, MENG 2400 Mechatronics Systems Design Reinforced: MENG 3010 Machine Design Achieved: MENG 4004 Senior Design I, MEN \$4014 Senior Design II, MENG 4304 Thermal I,Systems Design, MENG 4024 Mechanical CSystems Design	MENG 2400 Mechatronics Systems Design MENG 4004 Senior Desig n I Jæssignments, design report MENG 4304 Thermal Systems Design	
3	Students will be able to communicate effectively with a range of audiences.	Introduction: SE 1700 Fundamentals of Engineering Developing: MENG 1000 Design Thinking Reinforced: MENG 3111 Mechanics Lab, ME 3201 Fluids Lab Achieved: MENG 4004 Senior Design I, MEN 4014 Senior Design II, MENG 4304 Thermal Systems Design, MENG 4024 Mechanical Systems Design, MENG 3001 Mechanical Engineering Lab	MENG 3201 Fluids Latiormal lab ക്രൂort	Same approach as Outcome 1
4	Students will be able to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic environmental, and societal contexts.	Introduced: SE 1700 Engineering Fundamentals Developing: MENG 3010 Machine Design Reinforced/Achieved: MENG 4004 Senior Design I, MENG 4304 Thermal Systems Des	SE 1700 Engineering Fundamentals Play Pump assignment MENG 3010 Machine Design MENG 4004 Senior Design I ignssignments, presentation MENG 4304 Thermal Systems Design	Same approach as Outcome 1

5	Students will be able to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	Developing: MENG 1000 Design Thinking Reinforcing: MENG 3101 Solid Mechanics La MENG 3111 Mechanics Lab, MENG 3201 FI	u ists rvey MENG 4004 Senior Desig n I I Ø ssignments, design report	Same approach as Outcome 1
6	Students will be able tdevelop and conduct appropriate experimentation in the mechanical engineering domain, analyze and interpret data, and use engineering judgment to draw conclusions.	Introduction/Developing: MENG 2450 Engineering Experimentation, MENG 3101 Solid Mechanics Lab, MENG 3111 Mechanic Lab, MENG 3201 Fluids Lab Reinforced/Achieved: MENG 3001 Mechanic Engineering Lab, MENG 4450 PLC's and Robotics	report	Same approach as Outcome 1 .ab
7	Students will be able tacquire and apply new knowledge applicable to amechanical engineeringcareer using appropriate learning strategies.	Introduction: SE 1700 Engineering Fundamentals Developing: MENG 2450 Engineering Experimentation Reinforced/Achieved: MENG 4004 Senior Design I, MENG 4014 Senior Design II, MEN 4024 Mechanical Systems Design, MENG 43 Thermal Systems Design	SE 1700 Fundamentals of Engineering bibliography MENG 2450 Engineering Experimentation MENG 4014 Senior Design II GMENG 4024 Mechanical Systems Des	

Use of Assessment Data

1. How and when will analyzed data be usedporgramfaculty to make changes in pedagogy, curriculum design, and/or assespraetices?

2. How and when will the rogram faculty evaluate the impact of assessmeinformed changes made in previous years?

The full department assessment meetings also include review of prior changes to assess their effectiveness.

Additional Questions

 On what schedule/cycle willrogram facultyassess each of theorem is studentearning outcomes?P(lease ote: It is <u>notrecommended</u> try to assess every outcome every year.) Review meetings in even yeares and an overall review of the assessment plan Review meeting in odd years -odd outcomes

2. Describe how, and the extent to which, program faculty contributed to the development of this plan.

The general format for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adoptioned for the plan was developed and adopted in a full faculty meeting in Fall 2023 after further faculty 65.294 see U0[(1.2 (8h)oo (6)-3 (p)-0.7 (l)-3.2.054(0)6 (2)-4.9 (3)]4J 0 -Tc 05Tw 3.641 0 Td ()T[0(p)-I)(o)oe w (n)2.322 (o.9 (the plan was developed and adopted in a full faculty for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the plan was developed and adopted in a full faculty meeting in Fall 2022, and then the adopted for the faculty f

Example Rubrics

Example rubrics are provided below. Not all rubrics are available at this tippeated versions will be provided with the annual reports for the appropriate outcomes.

OUTCOME 1:

MENG 2150 Dynamics

Indicator	Below Expectations	Meets Expectations	Above Expectations
Ability to analyze and solve two			
dimensional rigid body kinematic			
problems involving rotation around a	n		

MENG 4300 Heat Transfer

Indicator	Below Expectations	Meets Expectations	Above Expectations
Ability to analyze and solve	Student fails to solve the problem due to	Student uses mostly proper	Student uses proper
combined heat transfer	significantly improper procedures,	procedures to formulate and solv	eprocedures to formulate and
problemswhere conduction	incorrect equations, incomplete work,	the resulting governing equation	solve the governing equations
convection are present.	and/or significant mathematical errors.	with at most a few errors.	with minimal errors.

OUTCOME 2:

OUTCOME 3:

MENG 3201 Fluids Lab

4) Ability to use effectivewriting syntax and voice.	Final report hasufficient syntax, tense, and voice issues to significantly hamper the understanding of the eport by the reader.	Final report hasoccasional sectionswhere the voice andense are inconsistent oincorrect, or where the sentence/paragraph structure is not welbrganized or lackssufficient clarity.	Final report uses readily comprehensible and followable syntax and uses proper voice anteinse consistently throughout the report.
5) Overall communication quality.	Report fails to convegnain points of thelab without significantparsingand re reading of		

2)	Data
ana	alysis

Data analysis has major errors