

**Master of Science in
Subsea Engineering Degree Plan**

Effective Spring 2020

Name: _____
 PSID #: _____
 Semester: _____
 Cumulative GPA: _____

Category 1: Required Courses (9 hours)

Course Number	Course Requirements	SCH	Semester	Grade
1.		3		
2. SUBS 6310		3		
3. SUBS 6397		3		

Required Course Options:

MECE 6384 - Methods of Applied Mathematics I, **or** MECE 6385 - Methods of Applied Mathematics II, **or** SUBS 6305 - Mathematics for Subsea Engineers

SUBS 6310 - Flow Assurance

SUBS 6397 - Subsea Structures and Design

Category 2: Restricted Electives (18 hours)

Course Number	Course Electives	SCH	Semester	Grade
4.		3		
5.		3		
6.		3		
7.		3		
8.		3		
9.		3		

Restricted Elective Course Options

SUBS 6305 – Mathematics for Subsea Engineers	SUBS 6350 – Subsea Controls and Systems Engineering	SUBS 6380 – Subsea Systems
SUBS 6320 – Riser Design	SUBS 6351 – Design of Blowout Preventers	SUBS 6397 – Subsea Control Theory
SUBS 6330 – Pipeline Design	SUBS 6360 – Materials and Corrosion	SUBS 6397 – Guide To Engineering Data Science
SUBS 6340 – Subsea Processing and Artificial Lift	SUBS 6370 – Computational Methods and Design Experiments	SUBS 6397 – Advanced Flow Assurance

Category 3: Electives (3 hours)

Course Number	Course Electives	SCH	Semester	Grade
1.		3		

Elective Course Options:

MECHANICAL ENGINEERING OPTIONS	PETROLEUM ENGINEERING OPTIONS
MECE 6335 — Heat Transfer with Phase Change	PETR 6328 — Petroleum Fluid Properties and Phase Equilibria
MECE 6341 — Viscous Flow Theory	PETR 6368 — Well Drilling & Completion I
MECE 6353 — Introduction to Computational Fluid Dynamics	PETR 6372 — Petroleum Production Operations
MECE 6361 — Mechanical Behavior of Materials	PETR 6306 — Oil Field Facilities Design and Operation
MECE 6397 — Feedback Control Systems	PETR 6336 — Petroleum Energy Markets
MECE 63XX — Selected Courses require approval from Program Director	PETR 6312 — Well Logging: Evaluation of Petroleum Formations

Director Signature: _____

Date: _____

*These courses are subject to the approval by the Director. Students are strongly encouraged to take at least one course from another department or program within the Cullen College of Engineering. Mechanical Engineering graduate courses applicable to MS in Subsea Engineering include the above courses.