

Program Change Request

New Program Proposal

Date Submitted: 05/23/17 12:01 pm

Viewing: **BS/MML-MARR/MAAL-GAD : Marine Engineering Technology- 5-year Bachelor of Science/Master of Maritime Admin & Logistics**

Last edit: 06/29/17 2:29 pm

Changes proposed by: bentzs

Contact(s)

Name	E-mail	Phone
Steve Bentz	bentzs@tamug.edu	409-741-7197

Academic level	Undergraduate-Graduate
Effective Term	2018-2019 Galveston
Department	Marine Engineering Technology
Department 2	Maritime Administration
College	Galveston Campus
College 2	Galveston Campus
Program type	Combination
Degree designation	BS/MML - Bachelor of Science/Master of Maritime Admin & Logistics
With a major in	Marine Engineering Technology/Maritime Admin & Logistics (MARR/MAAL)
With a concentration in	Galveston MML 3+2 Program (GAD)
Catalog Program Title	Marine Engineering Technology- 5-year Bachelor of Science/Master of Maritime Admin & Logistics
CIP and Fund code	49030901

Rationale for Proposal

This program allows Marine Engineering Technology (MARR) majors to enter the graduate program for Master of Maritime Administration and Logistics the beginning of their senior year, enabling students to receive their MARR undergraduate degree (B.S.) and a Master of Maritime Administration and Logistics (MMAL) graduate degree in five years.

Program hours	159
Is this program eligible for financial aid?	Yes

Catalog Program Requirements

Plan of Study Grid

First Year		Semester Credit Hours
Fall		
CHEM 107	General Chemistry for Engineering Students	3
CHEM 117	General Chemistry for Engineering Students Laboratory	1
ENGL 104	Composition and Rhetoric	3
MARE 100	Marine Engineering Fundamentals 1	3

In Workflow

1. MARE Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Preparer GR
5. GV Committee Chair UG
6. GV Committee Chair GR
7. GV College Dean UG
8. GV College Dean GR
9. UCC & GC Preparers -UCC Preparer -GC Preparer
10. UCC & GC Chairs -UCC Chair -GC Chair
11. Faculty Senate Preparer
12. Faculty Senate
13. Provost II
14. President
15. External Approval
16. Curricular Services

Approval Path

1. 06/05/17 1:23 pm Edward Clancy (clancy): Approved for MARE Department Head
2. 06/29/17 2:42 pm Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
3. 06/29/17 2:46 pm Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 06/29/17 4:22 pm Nicole Kinslow (wilkinsn): Approved for GV Committee Preparer GR
5. 07/11/17 3:58 pm Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG
6. 08/14/17 9:26 am Antonietta Quigg (quigga): Approved for GV Committee Chair GR

MATH 151	Engineering Mathematics I 2	4
MARE 485	Directed Studies	1
or MARA 485	or Directed Studies	
	Semester Credit Hours	15
Spring		
ENGR 111	Foundations of Engineering I 1	2
MATH 152	Engineering Mathematics II	4
PHYS 218	Mechanics	4
American history		3
Creative arts		3
	Semester Credit Hours	16
Second Year		
Fall		
ENGR 112	Foundations of Engineering II 1	2
MARE 202	Marine Thermodynamics 1,2	3
MARE 205	Engineering Mechanics I 1,2	3
MARE 242	Manufacturing Methods I 1	2
MARE 243	Manufacturing Methods II 1	1
PHYS 208	Electricity and Optics 2	4
	Semester Credit Hours	15
Spring		
ACCT 229	Introductory Accounting	3
MARE 206	Engineering Mechanics II 1,2	3
MARE 207	Electrical Power I 1,2	3
MARE 211	Steam Propulsion Plants 1	3
MARE 261	Engineering Analysis	3
	Semester Credit Hours	15
Third Year		
Fall		
MARE 209	Mechanics of Materials 1	3
MARE 305	Fluid Mechanics Theory 1	4
MARE 306	Electrical Power II 1	3
MARE 313	Heat Transfer	3
POLS 206	American National Government	3
	Semester Credit Hours	16
Spring		
ACCT 230	Introductory Accounting	3
MARE 309	Marine Construction Materials 1	3
MARE 312	Diesel Propulsion Plants 1	3
POLS 207	State and Local Government	3
American history		3
	Semester Credit Hours	15
Fourth Year		
Fall		
MARE 307	Marine Electronics 1	3
MARE 405	Fundamentals of Naval Architecture 1,4	3
MARE 451	Senior Design Project I (Satisfies MARA 250 Double count)	12
ECON 202	Principles of Economics	3
SCMT 303	Statistical Methods	3
Communication		3
	Semester Credit Hours	17
Spring		
MARA 363	The Management Process	3
MARA 623	Economic Issues in Shipping	3
MARE 452	Senior Design Project II 1,4	2
MARA elective 5		3
MARA elective 5		3
	Semester Credit Hours	14
Fifth Year		
Fall		
MARA 624	Intermodal Transportation Operations	3
MARA 627	Marketing of Transportation Services	3
MARA 636	Managerial Decision Making	3
MARA 641	Financial Management in Marine Transportation	3
MARA elective 5, 6		3

7. 08/14/17 2:50 pm
Patrick Louchouart
(loup): Approved for GV
College Dean UG
8. 08/15/17 9:08 am
Antonietta Quigg
(quigga): Approved for
GV College Dean GR
9. 08/15/17 5:29 pm
Sandra Williams
(sandra-williams):
Approved for UCC & GC
Preparers
10. 08/21/17 11:21 am
Sandra Williams
(sandra-williams):
Approved for UCC & GC
Chairs

	Semester Credit Hours	15
Spring		
MARA 610	International Strategic Planning and Implementation	3
MARA 664	Production, Operations and Logistics Management 7	3
Language, philosophy and culture		3
MARA elective 5		3
MARA elective 5		3
	Semester Credit Hours	15
	Total Semester Credit Hours	153

1Required courses in the Marine Engineering Technology major. Courses will be used to compute the major GPR.

2MARR students are required to earn a grade of C or better in [MATH 151](#), [PHYS 218](#) and [PHYS 208](#), [MARE 202](#), [MARE 205](#), [MARE 206](#) and [MARE 207](#). Failure to meet this requirement will prevent the student from continuing any sequence in which the course is a prerequisite.

3The total hours may be increased if the student is required to take remedial math, remedial English, foreign language, or International and Cultural Diversity courses.

4Designated writing intensive course.

5Choose from Graduate Level MMAL Electives: [MARA 604](#), [MARA 616](#), [MARA 640](#), [MARA 650](#), [MARA 652](#), [MARA 658](#), [MARA 660](#), [MARA 670](#), [MARA 672](#); [MARS 620](#), [MARS 635](#), [MARS 640](#), [MARS 660](#), [MARS 676](#). [MARA 691](#) may be taken as an elective for six credit hours.

6Satisfies MARE elective requirement (Double Count).

7Satisfies MARE major course work, eg. [MARE 441](#), Double Count.

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see [University Core Curriculum](#) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The six-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

Although they may count for university credit, grades from another institution below a C in engineering, mathematics and physics will not be accepted by the TAMUG engineering programs toward the degree.

Additional information

Required Proposal Forms [Memos of Support MARE MARR.pdf](#)
[IAB Survey 2017.docx](#)
[Degree Eval 3+2 MAREMAAL.docx](#)

Reviewer Comments **Angel Mario Carrizales (carri1214) (01/06/17 12:18 pm)**: Rollback: Several concerns have been identified. Initiator has been emailed with detailed comments.

Sandra Williams (sandra-williams) (03/10/17 2:23 pm): Rollback: The current BS in MARR degree program requires 123 hours plus 36 hours for the MAAL. The total program hours should equal 159. The hours over 150 (9) can double count. What are the 9 hours in the catalog program requirements table? Please identify those courses using footnotes. In addition, you have indicated that the Core Curriculum Social and Behavioral requirement would be satisfied by credit by exam. First, what is the specific course? Second, we currently have no programs that satisfy a core requirement using credit by exam. We may need additional approval/discussion on this topic.

Angel Mario Carrizales (carri1214) (03/24/17 10:14 am): Edits made to catalog program requirements to conform to catalog style guide.

Sandra Williams (sandra-williams) (03/24/17 4:03 pm): Rollback: Concerns have not been addressed. Please either comment on form or communicate via email.

Steve Bentz (bentzs) (03/29/17 1:37 pm): Please return for revision or change "social and behavioral" elective to ECON 202 in the program requirements section. Thank you.

Angel Mario Carrizales (carri1214) (04/25/17 11:43 am): Base on the attached documents the total undergraduate SCH required equal 124. The BS-MARR degree total program hours as approved by THECB is 123 SCH. The total number of required undergraduate hours should not surpass the approved SCH.

Angel Mario Carrizales (carri1214) (04/25/17 12:06 pm): Rollback: At the request of initiator. Additional comments have been emailed to the initiator.

Angel Mario Carrizales (carri1214) (05/19/17 2:49 pm): Rollback: Additional concerns have been identified. Initiator has been emailed with detailed comments.

Angel Mario Carrizales (carri1214) (05/23/17 10:38 am): Rollback: At the request from initiator.

Angel Mario Carrizales (carri1214) (06/29/17 10:34 am): Catalog Program Title updated to conform to catalog style guidelines.

Angel Mario Carrizales (carri1214) (06/29/17 2:41 pm): Curricular Services concerns have been addressed. Total Program Hours are 159 SCH (123 UG + 36 GR). The Catalog Program requirements show 153 as 6 SCH will be double counted as noted in Footnote 6 and 7.

Joan Mileski (mileskij) (07/09/17 12:58 pm): I approve. Joan P. Mileski Professor and Department Head, Master of Maritime Administration and Logistics MMAL Advisor

Course Reviewer Comments **Angel Mario Carrizales (carri1214) (01/06/17 12:18 pm)**: Rollback: Several concerns have been identified. Initiator has been emailed with detailed comments.

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Joan Mileski (mileskij) (07/09/17 12:58 pm): I approve. Joan P. Mileski Professor and Department Head, Master of Maritime Administration and Logistics MMAL Advisor

Key: 830

MARITIME ADMINISTRATION

Joan A. Mileski, PhD
Department Head



February 14, 2017

TO: University Curriculum Committee

THROUGH: TAMUG Academic Advisory Committee

FROM: Dr. Joan P. Mileski

SUBJECT: 3+2 MARR/MARA

This memorandum affirms that the Maritime Administration Department fully supports the establishment of a joint degree program between the Marine Engineering Technology Department and the Maritime Administration Department. Students enrolled in this program would receive their Bachelor of Science degree in Marine Engineering Technology (MARR) and a Master's of Maritime Administration and Logistics (MAAL). We believe that this program will open an intellectually exciting and promising career path for a select group of Texas A&M University at Galveston students. The Maritime Administration Department and Marine Engineering Technology Department have complementary interests, and this program will encourage collaboration between the two faculties that is consistent with the mission of the university and the needs of Texas and the nation. The Maritime Administration Department is enthusiastic about this arrangement for these reasons.

A handwritten signature in cursive script that reads 'Joan P. Mileski'.

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www.tamug.edu/mara/mmal

Dr. Edward V. Clancy

Professor and Department Head

Marine Engineering Technology

February 14, 2017

MEMORANDUM

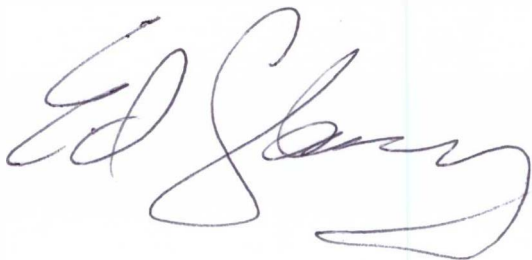
TO: University Curriculum Committee

THROUGH: TAMUG Academic Advisory Committee

FROM: Dr. Edward V. Clancy

This memorandum confirms that the Marine Engineering Technology Department fully and enthusiastically supports the establishment of a joint degree between the Marine Engineering Technology Department and the Maritime Administration Department. Students enrolled in this program would receive their Bachelor of Science degree in Marine Engineering Technology (BS in MARR) and a Master's in Maritime Administration and Logistics (MAAL) degree in five years. The program includes a total of 151 hours with 9 hours being applied toward both their B.S. in MARR and their MAAL.

We feel that this program will provide an enriching educational opportunity and promising professional development to highly motivated students at Texas A&M University at Galveston. In addition to providing this opportunity to students at Texas A&M University at Galveston, the program will encourage collaboration between the two faculties that is consistent with the mission of the university and the needs of Texas and the nation.





Industrial Advisory Board Survey

1. Should the Electro Technical Officer Program be offered to deck and engine?
 - a. Yes 9
 - b. No 4
2. Should the next meeting be held on October 19th?
 - a. Yes 13
 - b. No
3. Would you be interested in holding our meeting in the simulator room?
 - a. Yes 13
 - b. No
4. Should we have a 3+2 Program for the license option?
 - a. Yes 11
 - b. No 1
5. Is the Bridge on Land- Automation Education- a need that we should continue to explore?
 - a. Yes 13
 - b. No
6. Should Fluid Power be in the program?
 - a. Yes 10
 - b. No 2 (maybe if specifically applied to MARE field)
7. Is the freshman ROV Project a good idea?
 - a. Yes 12
 - b. No 1

Comments/Concerns: Think the ETO program for deck should be different, think the joint op. authenticity network concept is worth pursuing, like the “non-kit” approach to ROV; I would definitely have as many projects for freshmen as possible; great programs; electrical safety should be a core component of the ETO program; I view the loss of the ENGR 111 course as not good for the establishment of engineering fundamentals, adding a business background to the education through the 3+2 is good; the 3+2 needs to be very practical- a masters needs real world experience; 3+2 may predispose officers to go ashore diluting the school’s reputation, OK for deck; 3+2 should have several years of experience on their license at sea first.

Degree Evaluation 3+2 MARE/MAAL

Major Coursework- 63 hours (6 hours may be double counted)

- MARE 100- 3 hours
- ENGR 111- 2 hours
- ENGR 112- 2 hours
- MARE 202- 3 hours
- MARE 205- 3 hours
- MARE 242- 2 hours
- MARE 243- 1 hour
- MARE 206- 3 hours
- MARE 207- 3 hours
- MARE 209- 3 hours
- MARE 305- 4 hours
- MARE 306- 3 hours
- MARE 313- 3 hours
- MARE 309- 3 hours
- MARE 312- 3 hours
- MARE 307- 3 hours
- MARE 405- 3 hours
- MARE 451- 2 hours
- MARE 452- 2 hours
- MARE 211- 3 hours
- MARE 261- 3 hours
- MARE Elective- 3 hours (may be credited by taking MARA elective)
- MARA 664- 3 hours (satisfies MARE major course work, eg. MARE 441)
- **Major Coursework that provides MARA Master's Program Support – 13 hours.**
 - MARA 363- 3 hours
 - ACCT 229- 3 hours
 - ACCT 230- 3 hours
 - SCMT 303- 3 hours
 - MARE/MARA 485- 1 hour

Communication-6 min.

- Elective in Communication- 3 hours
- ENGL 104- 3 hours

Mathematics-6 min.

- MATH 151- 4 hours

- MATH 152- 4 hours

Life and Physical Sciences-9 min.

- CHEM 107- 3 hours
- CHEM 117- 1 hour
- PHYS 208- 4 hours
- PHYS 218- 4 hours

Language, Philosophy and Culture-3

- Elective in Language/Philosophy/Culture- 3 hours

Creative Arts-3

- Elective in Creative Arts- 3 hours

Social and Behavioral Science-3

- ECON 202- 3 hours

Citizenship- 12

- Elective in American History – 6 hours
- POLS 206- 3 hours
- POLS 207- 3 hours

Work Not Applied

University Writing Requirement

- MARE 405- 3 hours
- MARE 452- 2 hours

International and Cultural Diversity- 6

Foreign Language-0

Residence Requirement- 36 hrs. of 300-400 level coursework must be completed at TAMU.
Range of study MARE 300-499

GPR-MAAL- 36 hours

- MARA 610- 3 hours
- MARA 623- 3 hours
- MARA 627- 3 hours
- MARA 641- 3 hours

- MARA 636- 3 hours
- MARA 624- 3 hours
- MARA 664- 3 hours
- MARA Electives- 15 hours