

**AA Course Sequence Guide – Full-Time Enrollment**  
**Engineering – Ocean Pathway**  
**Associate in Arts Degree | Code: 10913 | 60 Credits**  
**Effective Term: Fall 2024 (2247)**

SEMESTER	Course ID	Course Title	Credits	Pre/Corequisites
Semester 1	ENC 1101 (W)	English Composition 1	3	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
	Humanities	ARH 1000, HUM 1020, LIT 2000 (W), MUL 1010, PHI 2010 (W), THE 2000 (W)	3	Prerequisite for LIT 2000: ENC 1101.
	MAC 1105 (C)	College Algebra	3	Prerequisite: MAT 1033♦ ♦ Students must seek advisement for proper mathematics course from discipline chairperson.
	EGN 1008C	Introduction to Engineering	3	
	SLS 1106	First Year Experience Seminar	1	
	TOTAL CREDITS		13	
Semester 2	ENC 1102 (W)	English Composition 2	3	Prerequisite: ENC 1101
	MAC 1140 (C)	Pre-Calculus Algebra	3	Prerequisite: MAC 1105
	CHM 1045	General Chemistry and Qualitative Analysis	3	Prerequisite: CHM 1025 or a passing score on the CART exam, MAC 1105 Corequisite: CHM 1045L
	CHM 1045L	General Chemistry and Qualitative Analysis Lab	2	Prerequisite: CHM 1025 or a passing score on the CART exam, MAC 1105 Corequisite: CHM 1045
	Computer Competency	Computer Skills Placement (CSP) ---or--- CGS 1060C		Departmental Recommendation: Computer Skills Placement (CSP)
	TOTAL CREDITS		11	
Semester 3	MAC 1114 (C)	Trigonometry	3	Prerequisite: MAC 1106 or MAC 1105
	Social Sciences	AMH 2010, AMH 2020, POS 2041	3	
	TOTAL SUMMER CREDITS		6	
Semester 4	Oral Communication	ENC 2300 (W), LIT 2480 (W), SPC 1017 (W), SPC 2608 (W)	3	Prerequisite for ENC 2300: ENC 1101, ENC 1102 Prerequisite for LIT 2480: ENC 1102 Prerequisite for SPC 2608: ENC 0025
	MAC 2311 (C)	Calculus and Analytic Geometry 1	5	Prerequisites: MAC 1106 and MAC 1114, MAC1140 and MAC 1114, or MAC 1147
	PHY 1025	Basic Physics	3	Prerequisite: MAC 1105
	Social Sciences	AMH 2010, AMH 2020, ANT 2000, ANT 2410, CLP 1006, DEP 2000, ECO 2013 (W), ISS 1120, ISS 1161, POS 2041, PSY 2012, SYG 2000, WOH 2012, WOH 2022	3	Note: Check with an MDC advisor for requisite information.
	TOTAL CREDITS		14	
Semester 5	Humanities	ARC 2701, ARC 2702 (W), ARH 1000, ARH 2050, ARH 2051 (W), ARH 2740 (W), DAN 2100, DAN 2130 (W), HUM 1020, IND 1100, IND 1130 (W), LIT 2000 (W), LIT 2120 (W), MUH 2111, MUH 2112 (W), MUL 1010, MUL 2380 (W), PHI 2010 (W), PHI 2600 (W), THE 2000 (W)	3	Note: Check with advisor for requisite information
	MAC 2312 (C)	Calculus and Analytical Geometry 2	4	Prerequisite: MAC 2311
	PHY 2048	Physics with Calculus 1	4	Prerequisites: High school physics or PHY 1025, PHY 2053 or departmental approval and MAC 2311 Corequisite: PHY 2048L
	PHY 2048L	Physics with Calculus 1 Lab	1	Prerequisites: MAC 2311 and High School Physics or PHY 1025 or PHY 2053 and PHY 2053L or Departmental Approval Corequisite: PHY 2048
	TOTAL CREDITS		12	
Semester 6	MAC 2313 (C)	Calculus and Analytical Geometry 3	4	Prerequisite: MAC 2312
	TOTAL CREDITS		4	
PROGRAM TOTAL			60	

**AA Course Sequence Guide – Part-Time Enrollment  
Engineering – Ocean Pathway  
Associate in Arts Degree | Code: 10913 | 60 Credits  
Effective Term: Fall 2024 (2247)**

SEMESTER	Course ID	Course Title	Credits	Pre/Co-Requisites
<b>Semester 1</b>	ENC 1101 (W)	English Composition 1	3	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
	MAC 1105 (C)	College Algebra	3	Prerequisite: MAT 1033♦ ♦ Students must seek advisement for proper mathematics course from discipline chairperson.
	EGN 1008C	Introduction to Engineering	3	
	<b>TOTAL CREDITS</b>		<b>9</b>	
<b>Semester 2</b>	MAC 1140 (C)	Pre-Calculus Algebra	3	Prerequisite: MAC 1105
	CHM 1045	General Chemistry and Qualitative Analysis	3	Prerequisite: CHM 1025 or a passing score on the CART exam, MAC 1105 Corequisite: CHM 1045L
	CHM 1045L	General Chemistry and Qualitative Analysis Lab	2	Prerequisite: CHM 1025 or a passing score on the CART exam, MAC 1105 Corequisite: CHM 1045
	SLS 1106	First Year Experience Seminar	1	
	Computer Competency	Computer Skills Placement (CSP) ---or--- CGS 1060C		<b>Departmental Recommendation:</b> Computer Skills Placement (CSP)
	<b>TOTAL CREDITS</b>		<b>9</b>	
<b>Semester 3</b>	ENC 1102 (W)	English Composition 2	3	Prerequisite: ENC 1101
	MAC 1114 (C)	Trigonometry	3	Prerequisite: MAC 1106 or MAC 1105
	Social Sciences	AMH 2010, AMH 2020, POS 2041	3	
	<b>TOTAL SUMMER CREDITS</b>		<b>9</b>	
<b>Semester 4</b>	Humanities	ARH 1000, HUM 1020, LIT 2000 (W), MUL 1010, PHI 2010 (W), THE 2000 (W)	3	Prerequisite for LIT 2000: ENC 1101.
	MAC 2311 (C)	Calculus and Analytic Geometry 1	5	Prerequisites: MAC 1106 and MAC 1114, MAC 1140 and MAC 1114, or MAC 1147
	<b>TOTAL CREDITS</b>		<b>8</b>	
<b>Semester 5</b>	Oral Communication	ENC 2300 (W), LIT 2480 (W), SPC 1017 (W), SPC 2608 (W)	3	Prerequisite for ENC 2300: ENC 1101, ENC 1102 Prerequisite for LIT 2480: ENC 1102 Prerequisite for SPC 2608: ENC 0025
	MAC 2312 (C)	Calculus and Analytical Geometry 2	4	Prerequisite: MAC 2311
	PHY 1025	Basic Physics	3	Prerequisite: MAC 1105
	<b>TOTAL CREDITS</b>		<b>10</b>	
<b>Semester 6</b>	Humanities	ARC 2701, ARC 2702 (W), ARH 1000, ARH 2050, ARH 2051 (W), ARH 2740 (W), DAN 2100, DAN 2130 (W), HUM 1020, IND 1100, IND 1130 (W), LIT 2000 (W), LIT 2120 (W), MUH 2111, MUH 2112 (W), MUL 1010, MUL 2380 (W), PHI 2010 (W), PHI 2600 (W), THE 2000 (W)	3	<b>Note:</b> Check with advisor for requisite information
	Social Sciences	AMH 2010, AMH 2020, ANT 2000, ANT 2410, CLP 1006, DEP 2000, ECO 2013 (W), ISS 1120, ISS 1161, POS 2041, PSY 2012, SYG 2000, WOH 2012, WOH 2022	3	<b>Note:</b> Check with advisor for requisite information
	<b>TOTAL SUMMER CREDITS</b>		<b>6</b>	
<b>Semester 7</b>	MAC 2313 (C)	Calculus and Analytical Geometry 3	4	Prerequisite: MAC 2312

	PHY 2048	Physics with Calculus 1	4	Prerequisites: High school physics or PHY 1025, PHY 2053 or departmental approval and MAC 2311 Corequisite: PHY 2048L
	PHY 2048L	Physics with Calculus 1 Lab	1	Prerequisites: MAC 2311 and High School Physics or PHY 1025 or PHY 2053 and PHY 2053L or Departmental Approval Corequisite: PHY 2048
	TOTAL CREDITS		9	
PROGRAM TOTAL			60	

**Please Note:** Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

ADDITIONAL COMMON PREREQUISITES			
Course ID	Course Title	Credits	Pre/Corequisites
MAP 2302 (C)	Differential Equations	3	Prerequisite: MAC 2312
PHY 2049	Physics with Calculus 2	4	Prerequisite: PHY 2048 and PHY 2048L Corequisites: PHY 2049L and MAC 2312
PHY 2049L	Physics with Calculus 2 Lab	1	Prerequisite: PHY 2048 and PHY 2048L Corequisites: PHY 2049 and MAC 2312
COP 2270	"C" for Engineers	4	Pre/Corequisite: MAC 1105. Recommended Preparation: CGS 1060C or knowledge of computer skills <b>Note:</b> FAU allows COP 1334 as an alternative.