

AA Course Sequence Guide – Full-Time Enrollment Engineering – Chemical Pathway Associate in Arts Degree | Code: (10906) | 60 Credits Effective Term: Fall 2024 (2247)

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).		
	EGN 1008C	Introduction to Engineering	3			
	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.		
	SLS 1106	First Year Experience Seminar	1			
		TOTAL CREDITS	13			
	ENC 1102 (W)	English Composition 2	3	Prerequisite: ENC 1101		
	Social Sciences	AMH 2010, AMH 2020, POS 2041	3			
Semester 2	Computer Competency	Computer Skills Placement (CSP)or CGS 1060C		Departmental Recommendation : Computer Skills Placement (CSP)		
	CHM 1045	General Chemistry and Qualitative Analysis	3	Prerequisites: MAC 1105; CHM1025 or a passing score on the CART exam Corequisites: CHM 1045L		
	CHM 1045L	General Chemistry and Qualitative Analysis Lab	2	Prerequisites: MAC 1105; CHM1025 or a passing score on the CART exam Corequisites: CHM 1045		
	MAC 1140 (C)	Pre-Calculus Algebra	3	Prerequisite: MAC 1105		
	TOTAL CREDITS					
6	MAC 1114 (C)	Trigonometry	3	Prerequisite: MAC 1105 or MAC 1106		
Semester 3	TOTAL SUMMER CREDITS		3			
	MAC 2311 (C)	Calculus and Analytical Geometry 1	5	Prerequisites: MAC1106 and MAC1114, or MAC1140 and MAC1114, or MAC1147		
Semester 4	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.		
	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		
	PHY 1025	Basic Physics	3	Prerequisite: MAC 1105		
		TOTAL CREDITS	14			
Semester 5	Humanities	ARC 2701, ARC 2702 (W), ARH 1000, ARH 2050, ARH 2051	3	Note: Check with an MDC advisor for requisite information.		

Notes: W = Writing Intensive Course C = Computational Course



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		(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)			
	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	Prerequisite: 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				
	PROGRAM TOTAL				



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	Effective Term: Fall 2024 (2247)				
SEMESTER	Course ID	Course Title	Credits	Pre/Co-Requisites	
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).	
	EGN 1008C	Introduction to Engineering	3		
	MAC 1105 (C)	College Algebra	3	Prerequisite: MAT 1033* •Students must seek advisement for proper mathematics course from discipline chairperson.	
		TOTAL CREDITS	9		
	MAC 1140 (C)	Pre-Calculus Algebra	3	Prerequisite: MAC 1105	
Semester 2	CHM 1045	General Chemistry and Qualitative Analysis	3	Prerequisites: MAC 1105; CHM1025 or a passing score on the CART exam Corequisites: CHM 1045L	
	CHM 1045L	General Chemistry and Qualitative Analysis Lab	2	Prerequisites: MAC 1105; CHM1025 or a passing score on the CART exam Corequisites: CHM 1045	
	Computer Competency	Computer Skills Placement (CSP)or CGS 1060C		Departmental Recommendation : Computer Skills Placement (CSP)	
	SLS 1106	First Year Experience Seminar	1		
		TOTAL CREDITS	9		
	ENC 1102 (W)	English Composition 2	3	Prerequisite: ENC 1101	
Semester 3	Social Sciences	AMH 2010, AMH 2020, POS 2041	3		
	MAC 1114 (C)	Trigonometry	3	Prerequisite: MAC 1105 or MAC 1106	
	TOTAL SUMMER CREDITS				
	MAC 2311 (C)	Calculus and Analytical Geometry 1	5	Prerequisites: MAC 1106 and MAC 1114, or MAC 1140 and MAC 1114, or MAC 1147	
Semester 4	Humanities	ARH 1000, HUM 1020, LIT 2000 (W), MUL 1010, PHI 2010 (W), THE 2000 (W)	3	Prerequisite for LIT 2000: ENC 1101	
		TOTAL CREDITS	8		
Semester 5	MAC 2312 (C)	Calculus and Analytical Geometry 2	4	Prerequisite: MAC 2311	
	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	
	PHY 1025	Basic Physics	3	Prerequisite: MAC 1105	
		TOTAL CREDITS	10		
Semester 6	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	3	Note: Check with an MDC advisor for requisite information.	

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	Social Sciences	(W), LIT 2120 (W), MUH 2111, MUH 2112 (W), MUL 1010, MUL 2380 (W), PHI 2010 (W), PHI 2600 (W), THE 2000 (W) 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 SUMMER CREDITS	6		
Semester 7	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	Prerequisite: MAC 2311 and High School Physics or PHY 1025 or PHY 2053 and PHY 2053L or Departmental Approval Corequisite: PHY 2048	
	TOTAL CREDITS				
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	
CHM 1046	General Chemistry and Qualitative Analysis II	3	Prerequisites: CHM 1045 Corequisite: CHM 1046L	
CHM 1046L	General Chemistry and Qualitative Analysis II	2	Prerequisite: CHM 1045,1045L Corequisite: CHM 1046.	
MAP 2302	Introduction to Differential Equations		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.	