Miami Dade College

AA Course Sequence Guide - Full-Time Enrollment Engineering - Architectural Pathway Associate in Arts Degree | Code: (10905) | 60 Credits Effective Term: Fall 2025 (2257)				
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**	
Semester 2	ENC 1102 (W)	English Composition 2	3	Prerequisite: ENC 1101
	Social Sciences	AMH 2010, AMH 2020, POS 2041	3	
	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: MAC 1105, CHM 1025 or a passing score on the CART exam. Corequisite: CHM 1045
	Computer Competency	Computer Skills Placement CSP) ---or--- CGS 1060C		**Departmental Recommendation**: Computer Skills Placement (CSP)
	MAC 1140 (C)	Pre-Calculus Algebra	3	Prerequisite: MAC 1105
	TOTAL CREDITS		**14**	
Semester 3	MAC 1114 (C)	Trigonometry	3	Prerequisite: MAC 1105 or MAC 1106
	TOTAL SUMMER CREDITS		**3**	
Semester 4	MAC 2311 (C)	Calculus and Analytical Geometry 1	5	Prerequisites: MAC 1106 and MAC 1114, or MAC 1114 and MAC 1140, or MAC 1147
	Social Sciences	AMH 2010, AMH 2020, ANT 2000, DEP 2000, ECO 2013 (W), 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), SPC 1017 (W), SPC 2608 (W)	3	Prerequisite for ENC 2300: ENC 1101, 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 (W), ARH 2740 (W), DAN 2100, DAN 2130 (W), HUM 1020, LIT 2000 (W), LIT 2120 (W), MUH 2111, MUH 2112 (W), MUL 1010, MUL	3	**Note:** Check with an MDC advisor for requisite information.

Notes: W = Writing Intensive Course
      C = Computational Course

		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	**4**	
		PROGRAM TOTAL	**60**	

SEMESTER	Course ID	Course Title	Credits	Pre/Co-Requisites
		AA Course Sequence Guide - Part-Time Enrollment **Engineering - Architectural Pathway** **Associate in Arts Degree	Code: (10905)	60 Credits** **Effective Term: Fall 2025 (2257)**		
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**	
Semester 2	CHM 1045	General Chemistry and Qualitative Analysis	3	Prerequisites: MAC 1105; CHM 1025 or a passing score on the CART exam Corequisites: CHM 1045L
	CHM 1045L	General Chemistry and Qualitative Analysis Lab	2	Prerequisites: MAC 1105; CHM 1025 or a passing score on the CART exam Corequisite: CHM 1045
	Computer Competency	Computer Skills Placement (CSP) ---*or*--- CGS 1060C		**Departmental Recommendation**: Computer Skills Placement (CSP)
	MAC 1140 (C)	Pre-Calculus Algebra	3	Prerequisite: MAC 1105
	SLS 1106	First Year Experience Seminar	1	
		TOTAL CREDITS	**9**	
Semester 3	*Social Sciences*	AMH 2010, AMH 2020, POS 2041	3	
	ENC 1102 (W)	English Composition 2	3	Prerequisite: ENC 1101
	MAC 1114 (C)	Trigonometry	3	Prerequisite: MAC 1105 or MAC 1106
		TOTAL SUMMER CREDITS	**9**	
Semester 4	MAC 2311 (C)	Calculus and Analytical Geometry 1	5	Prerequisites: MAC 1106 and MAC 1114, or MAC 1114 and MAC 1140, or MAC 1147
	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), SPC 1017 (W), SPC 2608 (W)	3	Prerequisite for ENC 2300: ENC 1101, 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, LIT 2000 (W), LIT 2120 (W), MUH 2111, MUH 2112 (W), MUL 1010, MUL	3	**Note:** Check with an MDC advisor for requisite information.

Notes: W = Writing Intensive Course
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		2380 (W), PHI 2010 (W), PHI 2600 (W), THE 2000 (W)		
	Social Sciences	AMH 2010, AMH 2020, ANT 2000, DEP 2000, ECO 2013 (W), 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	**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)	Introduction to 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.