Miami Dade College

COURSE SEQUENCE GUIDE FOR FULL-TIME ENROLLMENT: Students Transitioning From the Associate of Science in Electrical Engineering Technology
Electrical and Computer Engineering Technology
Bachelor of Science | Code: S9100 | 134 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CET 3126C	Computer Architecture	4	
ENC 1102	English Composition 2	3	Prerequisite: ENC 1101
MAC 2311	Calculus and Analytical Geometry 1	5	Prerequisite: MAC1106 and MAC1114, or MAC1140 and MAC1114, or MAC1147
Lower Division	**Note:** This Course Sequence Guide is for students transitioning from the Associate in Science (AS) in Electronics Engineering Technology (Plan Code: 26039) and whose effective start term is Fall 2022. It is based on students having completed 15 general education credits and 45 program core/major requirements. Additionally, students must have completed **EET 2323C Analog Communications** and **EET 2351C Digital and Data Communications** for a total of 8 credits as major course electives. If one of these courses were not chosen as electives, they should be completed this term.		
	Semester Credits	**12**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
MAC 2312	Calculus and Analytical Geometry 2	4	Prerequisite: MAC 2311
ETI 4480C	Applied Robotics	4	Prerequisite: EET 3126C
PHY 2048	Physics with Calculus 1	4	Prerequisite: PHY 1025 or PHY 2053, and MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAS 2103, or MAP 2302 Corequisite: PHY 2048L
PHY 2048L	Physics with Calculus 1 Lab	1	Prerequisite: PHY 1025 or PHY 2053, and MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAS 2103, or MAP 2302 Corequisite: PHY 2048
	Semester Credits	**13**	

Semester 3

PHY 2049	Physics with Calculus 2	4	Prerequisite: PHY 2048 Corequisites: PHY 2049L and MAC 2312
PHY 2049L	Physics with Calculus 2 Lab	1	Prerequisite: PHY 2048 Corequisites: PHY 2049 and MAC 2312
EET 3716C	Advanced System Analysis	4	Prerequisites: EET 1025C and MAC 2312
Foreign Language Competence	**Note:** Foreign language is a graduation requirement for the baccalaureate met through 8 credit hours at the elementary 2 level in one foreign language or equivalent. Certain foreign language courses count towards program electives. Students may satisfy equivalence through standardized examinations or successful completion of two credits (two years) in one foreign language at the secondary (high school) level. For additional information, including exemptions for students whose native language is not English, see the Testing and Assessment Department.		
	Summer Semester Credits	**9**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4158C	Linear Integrated Circuits	4	Prerequisite: EET 3716C
MAP 2302	Differential Equations	3	Prerequisite: MAC 2312
Program Elective	Group A: Select one course from the following offerings. • ETP 3240 Power Systems • ETP 3320 Introduction to Renewable Energy Technology	3-4	Prerequisite for ETP 3240: EET 1025C Prerequisite for ETP 3320: EET 2101C
Social Sciences	**MDC Core:** AMH 2010, AMH 2020, ANT 2000, ANT 2410, CLP 1006, DEP 2000, ECO 2013, ISS 1120, ISS 1161, POS 2041, PSY 2012, SYG 2000, WHO 2012, WHO 2022	3	**Note:** The BS program requires fulfillment of the Civic Literacy Competency by selecting AMH 2020 or POS 2041 AND receiving a passing score on the Florida Civic Literacy Examination (or an equivalent AP or CLEP exam). State Board of Education Rule 6A-10.030, the Gordon Rule, additionally requires that students complete with grades of C or better 12 credits in designated courses in which the student is required to demonstrate college-

			level writing skills through multiple assignments. Students who have not met these requirements as part of their prior course of study should select course based on the aforementioned.
Semester Credits		**13**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4732C	Signals and Systems	4	Prerequisite: EET 3716C
EET 4730C	Feedback Control Systems	4	Prerequisite: EET 3716C
Oral Communications	ENC 2300, LIT 2480, SPC 1017, SPC 2608	3	**Note**: ENC 1102 is a prerequisite to ENC 2300 and LIT 2480
Humanities	**MDC Core:** ARC 2701, ARC 2702, ARH 1000, ARH 2050, ARH 2051, ARH 2740, DAN 2100, DAN 2130, HUM 1020, IND 1100, IND 1130, LIT 2000, LIT 2120, MUH 2111, MUH 2112, MUL 1010, MUL 2380, PHI 2010, PHI 2604, THE 2000	3	**Note**: Check with advisor for requisites. State Board of Education Rule 6A-10.030, the Gordon Rule, requires that students successfully complete 12 credits in designated courses (see Program Sheet) in which the student is required to demonstrate college-level writing skills through multiple assignments. Students who have not met the 12 credits, must select a Gordon Rule course from Humanities or Social Sciences.
Semester Credits		**14**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4165C	Senior Design 1	3	Department Approval Required
Semester Credits		**3**	

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4166C	Senior Design 2	2	Prerequisite: EET4165C; Department Approval Required
Program Elective	Group B: Select one course from the following offerings. • CET 4190C Applied Digital Signal Processing • CET 4663C Electronic Security	3-4	Prerequisite for CET 4190C: COP2270; EET4732C; and EET2323C or EET2351C Prerequisite for CET 4663C: CET2123C and COP2270
Semester Credits		**5**	
Program Total		**69**	

Academic Pathway at MDC: This course sequence guide is for Bachelor in Science (BS) in Electrical and Computer Engineering Technology students transitioning **from the Associate in Science (AS) in Electronics Engineering Technology (Plan Code: 26039)**, and whose start term for the **AS was Fall 2022**. Students outside of this threshold should consult with an academic advisor for guidance. To learn more about program courses, see the College Catalog. Certain courses will prepare you for in-demand industry certifications and costs of exams may be eligible for reimbursement. You may also accelerate your studies via credit for prior learning or credit for attained industry certifications. Learn more.

Miami Dade College

COURSE SEQUENCE GUIDE FOR PART-TIME ENROLLMENT: Students Transitioning
From the Associate of Science in Electrical Engineering Technology
Electrical and Computer Engineering Technology
Bachelor of Science | Code: S9100 | 134 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
ENC 1102	English Composition 2	3	Prerequisite: ENC 1101
MAC 2311	Calculus and Analytical Geometry 1	5	Prerequisite: MAC1106 and MAC1114, or MAC1140 and MAC1114, or MAC1147
Lower Division	**Note:** This Course Sequence Guide is for students transitioning from the Associate in Science (AS) in Electronics Engineering Technology (Plan Code: 26039) and whose effective term is Fall 2022. It is based on students having completed 15 general education credits and 45 program core/major requirements. Additionally, students must have completed **EET 2323C Analog Communications** and **EET 2351C Digital and Data Communications** for a total of 8 credits as major course electives. If one of these courses were not chosen as electives, they should be completed this term.		
	Semester Credits	**8**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
MAC 2312	Calculus and Analytical Geometry 2	4	Prerequisite: MAC 2311
PHY 2048	Physics with Calculus 1	4	Prerequisite: PHY 1025 or PHY 2053, and MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAS 2103, or MAP 2302 Corequisite: PHY 2048L
PHY 2048L	Physics with Calculus 1 Lab	1	Prerequisite: PHY 1025 or PHY 2053, <u>and</u> MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAS 2103, or MAP 2302 Corequisite: PHY 2048
	Semester Credits	**9**	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
PHY 2049	Physics with Calculus 2	4	Prerequisite: PHY 2048 Corequisites: PHY 2049L and MAC 2312
PHY 2049L	Physics with Calculus 2 Lab	1	Prerequisite: PHY 2048 Corequisites: PHY 2049 and MAC 2312
MAP 2302	Differential Equations	3	Prerequisite: MAC 2312
Foreign Language Competence	**Note:** Foreign language is a graduation requirement for the baccalaureate met through 8 credit hours at the elementary 2 level in one foreign language or equivalent. Certain foreign language courses count towards program electives. Students may satisfy equivalence through standardized examinations or successful completion of two credits (two years) in one foreign language at the secondary (high school) level. For additional information, including exemptions for students whose native language is not English, see the Testing and Assessment Department.		
	Semester Credits	**8**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CET 3126C	Computer Architecture	4	
EET 3716C	Advanced System Analysis	4	Prerequisites: EET 1025C and MAC 2312
	Semester Credits	**8**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4158C	Linear Integrated Circuits	4	Prerequisites: EET 3716C
EET 4732C	Signals and Systems	4	Prerequisites: EET 3716C
	Semester Credits	**8**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
Program Elective	Group A: Select one course from the following offerings. • ETP 3240 Power Systems	3-4	Prerequisite for ETP 3240: EET 1025C Prerequisite for ETP 3320: EET 2101C

	• ETP 3320 Introduction to Renewable Energy Technology		
Social Sciences	**MDC Core:** AMH 2010, AMH 2020, ANT 2000, ANT 2410, CLP 1006, DEP 2000, ECO 2013, ISS 1120, ISS 1161, POS 2041, PSY 2012, SYG 2000, WHO 2012, WHO 2022	3	**Note:** The BS program requires fulfillment of the Civic Literacy Competency by selecting AMH 2020 or POS 2041 AND receiving a passing score on the Florida Civic Literacy Examination (or an equivalent AP or CLEP exam). State Board of Education Rule 6A-10.030, the Gordon Rule, additionally requires that students complete with grades of C or better 12 credits in designated courses in which the student is required to demonstrate college-level writing skills through multiple assignments. Students who have not met these requirements as part of their prior course of study should select course based on the aforementioned.
	Semester Credits	**6**	

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4730C	Feedback Control Systems	4	Prerequisite: EET 3716C
Program Elective	Group B: Select one course from the following offerings. • CET 4190C Applied Digital Signal Processing • CET 4663C Electronic Security	3-4	Prerequisite for CET 4190C: COP2270; EET4732C; and EET2323C or EET2351C Prerequisite for CET 4663C: CET2123C and COP2270
	Semester Credits	**7**	

Semester 8

Course ID	Course Title	Credits	Pre/Co-requisites
ETI 4480C	Applied Robotics	4	Prerequisite: EET 3126C
Humanities	**MDC Core:** ARC 2701, ARC 2702, ARH 1000, ARH 2050, ARH 2051, ARH 2740, DAN 2100, DAN 2130, HUM 1020, IND 1100, IND 1130, LIT 2000, LIT 2120, MUH 2111, MUH 2112, MUL 1010, MUL 2380, PHI 2010, PHI 2604, THE 2000	3	**Note**: Check with advisor for requisites. State Board of Education Rule 6A-10.030, the Gordon Rule, requires that students successfully complete 12 credits in designated courses (see Program Sheet) in which the student is required to demonstrate college-level writing skills through multiple assignments. Students who have not met the 12 credits, must select a Gordon Rule course from Humanities or Social Sciences.
	Semester Credits	**7**	

Semester 9

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4165C	Senior Design 1	3	Department Approval Required
Oral Communications	ENC 2300, LIT 2480, SPC 1017, SPC 2608	3	**Note**: ENC 1102 is a prerequisite to ENC 2300 and LIT 2480
	Semester Credits	**6**	

Semester 10

Course ID	Course Title	Credits	Pre/Co-requisites
EET 4166C	Senior Design 2	2	Prerequisite: EET4165C; Department Approval Required
	Semester Credits	**2**	
	Program Total	**69**	