COURSE SEQUENCE GUIDE FOR FULL-TIME ENROLLMENT: Students Transitioning From an Associate of Arts Degree

Data Analytics

Bachelor of Science | Code: S9510 | 120 credits

Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 3321C	Data Wrangling	4	Prerequisites: CAP 1788 and CAP 2761C
CAP 4767	Data Mining	4	Prerequisites: CAP1788 and CAP 2761C
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**12**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4744	Data Visualization	4	Prerequisites: CAP 1788 and CAP 2761C
CAP 4784	Big Data	4	Prerequisites: CAP1788 and CAP 2761C
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**12**	

Semester 3

CAP 3330 or STA 3164	Programming R for Statistics or Statistical Methods II	4	Prerequisite for CAP 3330: STA 2023 Prerequisite for STA 3164: STA 2023
CAP 4936 or CIS 3368	Special Topics in Data Analytics or Data Security & Governance	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
	Summer Semester Credits	**8**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4631C	Machine Learning for Data Analytics I	4	Prerequisites: COP 1047C; STA 3164 or CAP 3330 **Note:** Course offered in mini terms
CAP 4633C	Machine Learning for Data Analytics II	4	Prerequisite: CAP 4631C **Note:** Course offered in mini terms
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**12**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4936 or	Special Topics in Data Analytics	4	Prerequisite for CAP 4936: Departmental Approval Required

CIS 3368	or Data Security & Governance		**Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
CAP 4910	Data Analytics Capstone	4	Departmental Approval Required
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**16**	
	Program Total	**60**	

Academic Pathway at MDC: This course sequence guide is for Bachelor in Science (BS) in Data Analytics students transitioning **from the Associate in Arts (AA), and whose start term for the AA was Fall 2021 or later**. Students outside of this threshold should consult with an academic advisor for guidance as different requirements may apply, including but not limited to Civic Literacy. 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.

COURSE SEQUENCE GUIDE FOR PART-TIME ENROLLMENT: Students Transitioning From an Associate of Arts Degree
Data Analytics
Bachelor of Science | Code: S9510 | 120 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 3321C	Data Wrangling	4	Prerequisites: CAP 1788 and CAP 2761C
CAP 4767	Data Mining	4	Prerequisites: CAP 1788 and CAP 2761C
	Semester Credits	**8**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4744	Data Visualization	4	Prerequisites: CAP 1788 and CAP 2761C
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**8**	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 3330 or STA 3164	Programming R for Statistics or Statistical Methods II	4	Prerequisite for CAP 3330: STA 2023 Prerequisite for STA 3164: STA 2023
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Summer Semester Credits	**8**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4784	Big Data	4	Prerequisites: CAP 1788 and CAP 2761C
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**8**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CIS 3368 or CAP 4936	Data Security & Governance or Special Topics in Data Analytics	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic

			advisor for assistance with course selection and requisite information.
	Semester Credits	**8**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**4**	

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4631C	Machine Learning for Data Analytics I	4	Prerequisites: COP 1047C; STA 3164 or CAP 3330 **Note:** Course offered in mini terms
CAP 4633C	Machine Learning for Data Analytics II	4	Prerequisite: CAP 4631C **Note:** Course offered in mini terms
	Summer Semester Credits	**8**	

Semester 8

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4910	Data Analytics Capstone	4	Departmental Approval Required
CIS 3368 or CAP 4936	Data Security & Governance or Special Topics in Data Analytics	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
	Semester Credits	**8**	
	Program Total	**60**	

COURSE SEQUENCE GUIDE FOR FULL-TIME ENROLLMENT: Students Transitioning From the Associate in Science in Business Intelligence Specialist
Data Analytics
Bachelor of Science | Code: S9510 | 120 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 3320	Data Wrangling	4	Prerequisites: CAP 1788 and CAP 2761C
CAP 4767	Data Mining	4	Prerequisites: CAP1788 and CAP 2761C
ENC 1102	English Composition 2	3	Prerequisite: ENC 1101
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	**14**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4744	Data Visualization	4	Prerequisites: CAP 1788 and CAP 2761C
CAP 4784	Big Data	4	Prerequisites: CAP1788 and CAP 2761C
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**: ENC 1101 is a prerequisite to LIT 2000 and PHI 2010. 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.
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	**14**	

Semester 3

CAP 3330 or STA 3164	Programming R for Statistics or Statistical Methods II	4	Prerequisite for CAP 3330: STA 2023 Prerequisite for CAP 3330: STA 2023
CAP 4936 or CIS 3368	Special Topics in Data Analytics or Data Security & Governance	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
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	**8**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4631C	Machine Learning for Data Analytics I	4	Prerequisites: COP 1047C; STA 3164 or CAP 3330 **Note:** Course offered in mini terms
CAP 4633C	Machine Learning for Data Analytics II	4	Prerequisite: CAP 4631C

			Note: Course offered in mini terms
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**12**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4936 or CIS 3368	Special Topics in Data Analytics or Data Security & Governance	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
CAP 4910	Data Analytics Capstone	4	Departmental Approval Required
Natural Sciences	**MDC Core:** AST 1002, BOT 1010, BSC 1005, BSC 1030, BSC 1050, BSC 1084, BSC 2010, BSC 2020, BSC 2085, BSC 2250, ESC 1000, EVR 1001, HUN 1201, OCB 1010, PCB 2033, PSC 1121, PSC 1515, ZOO 1010, CHM*, GLY*, MET*, OCE*, PHY*	3	**Note:** Check with advisor for requisites
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	1-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**12**	
	Program Total	**60**	

Academic Pathway at MDC: This course sequence guide is for Bachelor in Science (BS) in Data Analytics students transitioning from the **Associate in Science (AS) in Business Intelligence Specialist** (Plan Code: 25073), and whose **start term for the AS was Fall 2022**. Students outside of this threshold should consult with an academic advisor for guidance as different requirements may apply, including but not limited to Civic Literacy. 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.

COURSE SEQUENCE GUIDE FOR PART-TIME ENROLLMENT: Students Transitioning From the Associate in Science in Business Intelligence Specialist
Data Analytics
Bachelor of Science | Code: S9510 | 120 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 3321C	Data Wrangling	4	Prerequisites: CAP 1788 and CAP 2761C
CAP 4767	Data Mining	4	Prerequisites: CAP 1788 and CAP 2761C
	Semester Credits	**8**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4744	Data Visualization	4	Prerequisites: CAP 1788 and CAP 2761C
ENC 1102	English Composition 2	3	Prerequisite: ENC 1101
	Semester Credits	**7**	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 3330 or STA 3164	Programming R for Statistics or Statistical Methods II	4	Prerequisite for CAP 3330: STA 2023 Prerequisite for STA 3164: STA 2023
Oral Communications	ENC 2300, LIT 2480, SPC 1017, SPC 2608	3	**Note**: ENC 1102 is a prerequisite to ENC 2300 and LIT 2480
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	**7**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4784	Big Data	4	Prerequisites: CAP 1788 and CAP 2761C
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	**7**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4936 or CIS 3368	Special Topics in Data Analytics or Data Security & Governance	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
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**: ENC 1101 is a prerequisite to LIT 2000 and PHI 2010. 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.
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	1-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**8**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
Program Elective	ACG*, CAI*, CAP*, CGS*, CIS*, CNT*, COP*, CTS*, FIN*, GEB*, MAC*, MAD*, MAN*, QMB*, STA*, ASL 1150C, CHI 1121, FRE 1121, GER 1121, HAI 1121, HBR 1121, ITA 1121, JPN 1121, POR 1121, RUS 1121, SPN 1121	3-4	**Note:** Program electives must total 20 credits. Students are recommended to choose CAI (Artificial Intelligence), CTS or CIS (for Cloud Computing), or additional CAP 4936 (Special Topics in Data Analytics) courses to fortify their knowledge and preparation for the workforce. Please speak to an academic advisor for assistance with course selection and requisite information.
Natural Sciences	**MDC Core:** AST 1002, BOT 1010, BSC 1005, BSC 1030, BSC 1050, BSC 1084, BSC 2010, BSC 2020, BSC 2085, BSC 2250, ESC 1000, EVR 1001, HUN 1201, OCB 1010, PCB 2033, PSC 1121, PSC 1515, ZOO 1010, CHM*, GLY*, MET*, OCE*, PHY*	3	**Note:** Check with advisor for requisites
	Summer Semester Credits	**7**	

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4631C	Machine Learning for Data Analytics I	4	Prerequisites: COP 1047C; STA 3164 or CAP 3330 **Note:** Course offered in mini terms
CAP 4633C	Machine Learning for Data Analytics II	4	Prerequisite: CAP 4631C **Note:** Course offered in mini terms
	Semester Credits	**8**	

Semester 8

Course ID	Course Title	Credits	Pre/Co-requisites
CAP 4910	Data Analytics Capstone	4	Departmental Approval Required
CAP 4936 or CIS 3368	Special Topics in Data Analytics or Data Security & Governance	4	Prerequisite for CAP 4936: Departmental Approval Required **Note:** Students may take CAP 4936 up to two times to fill the Topics in Data Analytics Upper Division Requirements (eight credits), just as long as the Topics are different. This course may additionally be taken under the Program Electives Block.
	Semester Credits	**8**	
	Program Total	**60**	