COURSE SEQUENCE GUIDE | FULL-TIME ENROLLMENT: Students Transitioning from an Associate in Science Degree
Applied Artificial Intelligence
Bachelor of Science | Code: S9520 | 120 credits
Effective Term: Spring 2026 (2263)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3303C	Natural Language Processing	3	Prerequisite: CAI 2300C
CAI 3821C	Computational Methods and Applications for Artificial Intelligence 1	3	Prerequisites: CAI 2100C, COP 1047C, MAC 1105, and STA 2023
COP 2800	Java Programming	4	Prerequisites: COP 1047C, COP 1334, or COP 2270
PHI 2680	Artificial Intelligence and Ethics	3	
	Semester Credits	**13**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 2840C	Introduction to Computer Vision	3	Prerequisite: CAI 2100C
CAI 3822C	Computational Methods and Applications for Artificial Intelligence 2	3	Prerequisite: CAI 3821C
COP 3530	Data Structures	4	Prerequisites: COP 2800
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**13**	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4505C	Artificial Intelligence	3	Prerequisites: CAI 3822C and COP 3530
CAP 3330 **---OR---** STA 3164	Programming R for Statistics **---OR---** Statistical Methods II	4	Prerequisite for CAP 3330: STA2023 Prerequisite for STA 3164: STA2023
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**10**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4420C	Applied Decision and Optimization Theory	3	Prerequisite: CAI 4505C
CAI 4510C	Machine Intelligence	3	Prerequisites: CAI 3822C and COP 3530
CAI 4830C	Simulation for Applied Artificial Intelligence	3	Pre/corequisite: CAI 4505C
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). 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
CAI 4525C	Artificial Intelligence Systems Automation	3	Prerequisites: CAI 4505C and CAI 4510C

CAI 4950C	Artificial Intelligence Capstone	3	Prerequisites: CAI 4510C, CAI 4420C, and CAI 4830C. Pre/Corequisite: CAI 4525C
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	TOTAL CREDITS	12	
	PROGRAM TOTAL	**60**	

COURSE SEQUENCE GUIDE | PART-TIME ENROLLMENT: Students Transitioning from an Associate of Arts Degree
Applied Artificial Intelligence
Bachelor of Science | Code: S9520 | 120 credits
Effective Term: Spring 2026 (2263)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3821C	Computational Methods and Applications for Artificial Intelligence 1	3	Prerequisites: CAI 2100C, COP 1047C, MAC 1105, and STA 2023
COP 2800	Java Programming	4	Prerequisites: COP 1047C, COP 1334, or COP 2270
PHI 2680	Artificial Intelligence and Ethics	3	
	Semester Credits	**10**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3303C	Natural Language Processing	3	Prerequisite: CAI 2300C
CAI 3822C	Computational Methods and Applications for Artificial Intelligence 2	3	Prerequisite: CAI 3821C
COP 3530	Data Structures	4	Prerequisites: COP 2800
	Semester Credits	**10**	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 2840C	Introduction to Computer Vision	3	Prerequisite: CAI 2100C
CAP 3330 **---*OR*---** STA 3164	Programming R for Statistics **---OR---** Statistical Methods II	4	Prerequisite for CAP 3330: STA2023 Prerequisite for STA 3164: STA2023
	Semester Credits	**7**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4505C	Artificial Intelligence	3	Prerequisites: CAI 3822C and COP 3530
CAI 4510C	Machine Intelligence	3	Prerequisites: CAI 3822C and COP 3530
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**9**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4420C	Applied Decision and Optimization Theory	3	Prerequisite: CAI 4505C
CAI 4830C	Simulation for Applied Artificial Intelligence	3	Pre/corequisite: CAI 4505C
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**9**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS),

			cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	TOTAL CREDITS	6	

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4525C	Artificial Intelligence Systems Automation	3	Prerequisites: CAI 4505C and CAI 4510C
CAI 4950C	Artificial Intelligence Capstone	3	Prerequisites: CAI 4510C, CAI 4420C, and CAI 4830C. Pre/Corequisite: CAI 4525C
Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	TOTAL CREDITS	9	
	PROGRAM TOTAL	**60**	

COURSE SEQUENCE GUIDE | FULL-TIME ENROLLMENT: Students Transitioning From the Associate in Science in Applied AI

Applied Artificial Intelligence

Bachelor of Science | Code: S9520 | 120 credits

Effective Term: TBA

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3303C	Natural Language Processing	3	Prerequisite: CAI 2300C
CAI 3821C	Computational Methods and Applications for Artificial Intelligence 1	3	Prerequisites: CAI 2100C, COP 1047C, MAC 1105, and STA 2023
COP 2800	Java Programming	4	Prerequisites: COP 1047C, COP 1334, or COP 2270
ENC 1102	English Composition 2	3	Prerequisite: ENC 1101
	Semester Credits	**13**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3822C	Computational Methods and Applications for Artificial Intelligence 2	3	Prerequisite: CAI 3821C
COP 3530	Data Structures	4	Prerequisites: COP 2800
Oral Communications	ENC 2300 (W), SPC 1017 (W), SPC 2608 (W)	3	**Note:** Check with advisor for requisite information
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:** Students who have not met the civic literacy competency requirement for graduation should select **AMH 2010, AMH 2020, or POS 2041**. Students must additionally pass an approved assessment.
	Semester Credits	**13**	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4505C	Artificial Intelligence	3	Prerequisites: CAI 3822C and COP 3530
CAP 3330 **---OR---** STA 3164	Programming R for Statistics **---OR---** Statistical Methods II	4	Prerequisite for CAP 3330: STA2023 Prerequisite for STA 3164: STA2023
General Education Elective		3	**Note:** See Academic Advisor for approved selection. Certain language courses count as general education elective.
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	**10**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4420C	Applied Decision and Optimization Theory	3	Prerequisite: CAI 4505C
CAI 4510C	Machine Intelligence	3	Prerequisites: CAI 3822C and COP 3530
CAI 4830C	Simulation for Applied Artificial Intelligence	3	Pre/corequisite: CAI 4505C
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 2380 (W), PHI 2010 (W), PHI 2600 (W), THE 2000 (W)	3	**Note:** Check with advisor for requisite information. State Board of Education Rule 6A-10.030 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 writing intensive course (W) from Humanities or Social Sciences.
	Semester Credits	**12**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4525C	Artificial Intelligence Systems Automation	3	Prerequisites: CAI 4505C and CAI 4510C
CAI 4950C	Artificial Intelligence Capstone	3	Prerequisites: CAI 4510C, CAI 4420C, and CAI 4830C. Pre/Corequisite: CAI 4525C

Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* CIS 3368, ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
Natural Sciences	AST 1002, BOT 1010, BSC 1005, BSC 1084, BSC 2010, BSC 2020, BSC 2085, CHM 1020, CHM 1025, CHM 1033, CHM 1045, CHM 1046, CHM 2200, CHM 2210, CHM 2211, ESC 1000, EVR 1001, GLY 1010, GLY 1100, HUN 1201, MET 1010, OCB 1010, OCE 1001, PHY 1004, PHY 1020, PHY 1025, PHY 2048, PHY 2049, PHY 2053, PHY 2054, PSC 1121, PSC 1515	3	**Note:** Check with advisor for requisite information
	TOTAL CREDITS	**12**	
	PROGRAM TOTAL	**60**	

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Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3821C	Computational Methods and Applications for Artificial Intelligence 1	3	Prerequisites: CAI 2100C, COP 1047C, MAC 1105, and STA 2023
COP 2800	Java Programming	4	Prerequisites: COP 1047C, COP 1334, or COP 2270
ENC 1102	English Composition 2	3	Prerequisite: ENC 1101
	Semester Credits	**10**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 3303C	Natural Language Processing	3	Prerequisite: CAI 2300C
CAI 3822C	Computational Methods and Applications for Artificial Intelligence 2	3	Prerequisite: CAI 3821C
COP 3530	Data Structures	4	Prerequisites: COP 2800
	Semester Credits	**10**	

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
General Education Elective		3	**Note:** See Academic Advisor for approved selection. Certain language courses count as general education elective.
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	**7**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4505C	Artificial Intelligence	3	Prerequisites: CAI 3822C and COP 3530
CAI 4510C	Machine Intelligence	3	Prerequisites: CAI 3822C and COP 3530
Oral Communications	ENC 2300 (W), SPC 1017 (W), SPC 2608 (W)	3	**Note:** Check with advisor for requisite information
	Semester Credits	**9**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4420C	Applied Decision and Optimization Theory	3	Prerequisite: CAI 4505C
CAI 4830C	Simulation for Applied Artificial Intelligence	3	Pre/corequisite: CAI 4505C
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:** Students who have not met the civic literacy competency requirement for graduation should select **AMH 2010, AMH 2020, or POS 2041**. Students must additionally pass an approved assessment.
	Semester Credits	**9**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
Natural Sciences	AST 1002, BOT 1010, BSC 1005, BSC 1084, BSC 2010, BSC 2020, BSC 2085, CHM 1020, CHM 1025, CHM 1033, CHM 1045, CHM 1046, CHM 2200, CHM 2210, CHM 2211, ESC 1000, EVR 1001, GLY 1010, GLY 1100, HUN 1201, MET 1010, OCB 1010, OCE 1001, PHY 1004, PHY 1020, PHY 1025, PHY 2048, PHY 2049, PHY 2053, PHY 2054, PSC 1121, PSC 1515	3	**Note:** Check with advisor for requisite information

Elective	CAI*, CAP*, CEN*, CET*, CGS*, CIS*, CNT*, COP*, CTS*, MAC*, MAD*, MAP* CIS 3368, ETS 1603C, GEB 1432, HSC 2060	3-4	**Note:** Students are encouraged to choose elective courses that complement their Applied AI studies and strengthen in-demand skills sought by employers, such as data management and cleansing (CAP and CGS), cloud computing (CIS and CTS), cybersecurity (CIS and CTS), smart devices and connected systems (CEN and CIS), and mathematics (MAC and MAD). Please speak to an academic advisor for assistance with course selection and requisite information.
	Semester Credits	**6**	

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites
CAI 4525C	Artificial Intelligence Systems Automation	3	Prerequisites: CAI 4505C and CAI 4510C
CAI 4950C	Artificial Intelligence Capstone	3	Prerequisites: CAI 4510C, CAI 4420C, and CAI 4830C. Pre/Corequisite: CAI 4525C
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 2380 (W), PHI 2010 (W), PHI 2600 (W), THE 2000 (W)	3	**Note:** Check with advisor for requisite information. State Board of Education Rule 6A-10.030 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 writing intensive course (W) from Humanities or Social Sciences.
	TOTAL CREDITS	**9**	
	PROGRAM TOTAL	**60**	