

COURSE SEQUENCE GUIDE | FULL-TIME ENROLLMENT: Students Transitioning
From an Associate of Arts Degree
Applied Artificial Intelligence
Bachelor of Science | Code: S9520 | 120 credits
Effective Term: Fall 2024

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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for requisite information
Elective	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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: Fall 2024

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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	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
Elective	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for requisite information
Semester Credits		9	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
Elective	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for requisite information
Elective	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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: Fall 2024

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, LIT 2480, SPC 1017, SPC 2608	3	Note: ENC 1102 is a prerequisite to ENC 2300 and LIT 2480
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, 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
Elective	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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
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 2600, THE 2000	3	
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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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, GLY 1010, HUN 1201, OCB 1010, OCE 1001, PCB 2033, PSC 1121, PSC 1515, ZOO 1010, CHM*, GLY*, MET*, OCE*, PHY*	3	Note: Check with advisor for requisite information
TOTAL CREDITS		12	
PROGRAM TOTAL		60	



COURSE SEQUENCE GUIDE | PART-TIME ENROLLMENT: Students Transitioning
 From the Associate in Science in Applied AI
Applied Artificial Intelligence
 Bachelor of Science | Code: S9520 | 120 credits
Effective Term: Fall 2024

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: STA2023 Prerequisite for STA 3164: STA2023
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		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	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	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	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, 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
Elective	COP*, MAC*, MAD*, MAP*, CAI 2820C, CAP 1788, CAP 2761C, CAP 3321C, CAP 4744, CGS 1540C, CIS 3368, CTS 1120, CTS 1145, ETS 1063C, GEB 1432, MAD 1100	3-4	Note: Check with advisor for 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, GLY 1010, HUN 1201, OCB 1010, OCE 1001, PCB 2033, PSC 1121, PSC 1515, ZOO 1010, CHM*, GLY*, MET*, OCE*, PHY*	3	Note: Check with advisor for 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	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 2600, THE 2000	3	
	TOTAL CREDITS	9	
	PROGRAM TOTAL	60	