

ARTIFICIAL INTELLIGENCE MAJOR

Program Tracking Sheet

Effective for students entering AY 2026-2027

Name:	Class Year:
Advisor:	2 nd Major:

NOTES: Minimum total academic credit = 15 units
Residency Req.: Min. of 8 units must be completed at WPI

HUMANITIES AND ARTS (6/3 units)

All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum. The Humanities and Arts Department will accept a maximum of 1/3 unit of AP credit towards the Humanities and Arts requirement.

Depth Component				
Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above.				
	Course	Term	Grade	Units
1				1/3
2				1/3
3				1/3
4	HU 3900 or HU 3910			1/3
Breadth Component				
Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner.				
i. art/art history, drama/theatre, and music (AR, TH, MU);				
ii. modern languages (AB, CN, ISE, GN, SP);				
iii. literature and writing rhetoric (EN, WR);				
iv. history, humanities, and international and global studies (HI, HU, INTL);				
v. philosophy and religion (PY, RE).				
Exception: May take all six courses in a modern language.				
5				1/3
Humanities Elective				
6				1/3

WELLNESS AND PHYSICAL EDUCATION (4 WPE classes = 1/3 unit)

7				1/12
				1/12
				1/12
				1/12

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS and ID2050

8				1/3
9				1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 unit)

10				1/3
11				1/3
12				1/3

FREE ELECTIVES (3/3 unit)

13				1/3
14				1/3
15				1/3

FOUNDATION COURSES (8/3 units)

COMPUTER SCIENCE (3/3 unit)

16	Intro Programming (CS 1004, 1005, 1101, or 1102)			1/3
17	Object-oriented Design (CS 2102, 2103, or 2119)			1/3
18	Algorithms (CS 2223)			1/3

MATHEMATICAL SCIENCES (5/3 unit)

19	Calculus I (MA 1021 or 1020)			1/3
20	Calculus II (MA 1022 or 1120)			1/3
21	Applied Stats I (MA 2611)			1/3
22	Applied Stats II (MA 2612)			1/3
23	Matrices and Linear Algebra (MA 2071 or 2072)			1/3

AI CORE COURSES (8/3 units) (Note 1)

AI FOUNDATIONS (3/3 units)

24	DS 1010			1/3
25	DS 2010			1/3
26	DS 3010			1/3

AI OVERVIEW (1/3 unit)

Chosen from CS 4341, RBE 4701

27				1/3
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MACHINE LEARNING (1/3 unit)

Chosen from CS 4445, CS 4342, DS/MA 4635, ECE 3405, CS/DS4433, RBE 4744, CS/DS 4343

28				1/3
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INTERACTION AND REASONING (1/3 unit)

Chosen from CS 3041, RBE 4601, IMGD/CS 4100, CS/DS 4344, CS/DS 4345

29				1/3
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ADDITIONAL AI CORE (2/3 units)

Choose two additional courses from the AI Core above.

30				1/3
31				1/3

AI ETHICS & SOCIAL IMPLICATIONS (1/3 unit) (Note 2)

Chosen from CS/SS 3043, ENV 2720, GOV 2302, GOV 2313, PY 2713, PY/RE 2731, RBE 3100, SS 1700, SS/PSY 2413, IMGD 2000, IMGD 2002.

32				1/3
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DISCIPLINARY ELECTIVES (2/3 units) (Note 3)

33				1/3
34				1/3

CONCENTRATION (6/3 unit) – Six distinct courses from the list of disciplinary courses in **one concentration** of the BS in AI degree. Must not include courses taken for other requirements.

See next page or course catalog for list of concentrations and courses.

35				1/3
36				1/3
37				1/3
38				1/3
39				1/3
40				1/3

NATURAL & ENGINEERING SCIENCE (2/3 unit) - Courses with prefixes AE, AREN, BB, BCB, BME, CE, CH, CHE, ECE, ES, GE, ME, NEU, PH or RBE count.

41				1/3
42				1/3

MQP (3/3 unit) (Note 4)

43				1/3
44				1/3
45				1/3

Note 1: AI core courses must include at least 2/3 units at the 4000-level or above.

Note 2: Students are encouraged to select a course that covers ethics related to AI.

Note 3: Can be chosen from any concentration or from the AI core courses. See next page or course catalog for list of concentrations and courses.

Note 4: Artificial Intelligence MQP projects must apply AI knowledge and techniques within the student's chosen concentration. Needs Advisor(s) with AI appointment and within the respective concentration appointment – it can be the same person, or two separate people.

Note 5: At least 4/3 units of the courses must be at the 4000-level and above. These 4000-level courses can be satisfied by any aspect of the distribution requirements (core, concentration, etc.)

CONCENTRATIONS (6/3 units)

ADVANCED AI METHODS AND TECHNOLOGIES CONCENTRATION	ELECTRICAL & COMPUTER ENGINEERING CONCENTRATION	LIFE SCIENCES & BIOTECHNOLOGY CONCENTRATION	ROBOTICS CONCENTRATION																																																			
<p>Choose at least three courses from:</p> <table style="width: 100%; border: none;"> <tr><td>CS 3733</td><td>DS/MA 4635</td></tr> <tr><td>CS 3431</td><td>CS/DS 4343</td></tr> <tr><td>CS 3041</td><td>CS 4341</td></tr> <tr><td>CS 4445</td><td>CS 4432</td></tr> <tr><td>CS 4342</td><td>CS/DS 4344</td></tr> <tr><td>CS/DS 4433</td><td>CS/DS 4345</td></tr> </table> <p>Choose remaining courses from:</p> <table style="width: 100%; border: none;"> <tr><td>CS 2022</td><td>CS 4804</td></tr> <tr><td>CS 2301*</td><td>CS 4233</td></tr> <tr><td>CS 2303*</td><td>CS 4518</td></tr> <tr><td>CS 4120</td><td></td></tr> </table> <p>Remaining courses can also be chosen from CS and DS graduate courses from the Core AI Bins of MS-AI degree.</p> <p>Note (*): Only one of CS 2301 or CS 2303 may be used for the degree program requirements.</p>	CS 3733	DS/MA 4635	CS 3431	CS/DS 4343	CS 3041	CS 4341	CS 4445	CS 4432	CS 4342	CS/DS 4344	CS/DS 4433	CS/DS 4345	CS 2022	CS 4804	CS 2301*	CS 4233	CS 2303*	CS 4518	CS 4120		<p>Recommended to take first (required):</p> <p style="text-align: center;">ECE 2010</p> <p>Choose at least two foundational courses from:</p> <table style="width: 100%; border: none;"> <tr><td>ECE 2029</td><td>ECE 2311</td></tr> <tr><td>ECE 2039</td><td>ECE 2312</td></tr> <tr><td>ECE 2049</td><td></td></tr> </table> <p>Choose remaining advanced courses from:</p> <table style="width: 100%; border: none;"> <tr><td>ECE 3012</td><td>ECE 3849</td></tr> <tr><td>ECE 3405</td><td>ECE 4703</td></tr> <tr><td>ECE 3829</td><td>ECE 4801</td></tr> </table>	ECE 2029	ECE 2311	ECE 2039	ECE 2312	ECE 2049		ECE 3012	ECE 3849	ECE 3405	ECE 4703	ECE 3829	ECE 4801	<p>At least one course at the 4000 level.</p> <p>Required:</p> <table style="width: 100%; border: none;"> <tr><td>BB 1101</td></tr> <tr><td>BB 2550</td></tr> <tr><td>BB 2920</td></tr> </table> <p>Choose three courses from:</p> <table style="width: 100%; border: none;"> <tr><td>BB 3010</td><td>BB 4260</td></tr> <tr><td>BB 3080</td><td>BB 4050</td></tr> <tr><td>BB 3003</td><td>BB 3920</td></tr> <tr><td>CH 4210</td><td></td></tr> <tr><td>BB 3950</td><td></td></tr> <tr><td>BB 4001</td><td></td></tr> </table>	BB 1101	BB 2550	BB 2920	BB 3010	BB 4260	BB 3080	BB 4050	BB 3003	BB 3920	CH 4210		BB 3950		BB 4001		<p>Choose one course in Electrical & Computer Engineering:</p> <p style="text-align: center;">ECE 2010</p> <p>Choose one course in Controls:</p> <p style="text-align: center;">ES 3011</p> <p>Choose one course in Embedded Systems:</p> <p style="text-align: center;">RBE 2020</p> <p>Choose two courses in Robotics Fundamentals from:</p> <table style="width: 100%; border: none;"> <tr><td>RBE 1001</td><td>RBE 2002</td></tr> <tr><td>RBE 2001</td><td></td></tr> </table> <p>Choose one course from:</p> <p>RBE at the 3000-level or above (including graduate courses; RBE 3100 does not count towards this requirement)</p>	RBE 1001	RBE 2002	RBE 2001	
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SUSTAINABLE CHEMICAL PRODUCTION CONCENTRATION	BUILT & NATURAL ENVIRONMENT CONCENTRATION	BUSINESS APPLICATIONS CONCENTRATION	EXPERIENCE DESIGN CONCENTRATION																																																																																				
<p>Required (must take all three):</p> <table style="width: 100%; border: none;"> <tr><td>CHE 2011</td></tr> <tr><td>CHE 2012</td></tr> <tr><td>CHE 2013</td></tr> </table> <p>Choose two courses from:</p> <table style="width: 100%; border: none;"> <tr><td>CHE 3201</td></tr> <tr><td>CHE 3501</td></tr> <tr><td>ES 3002</td></tr> <tr><td>ES 3003</td></tr> <tr><td>ES 3004</td></tr> </table> <p>Choose one course from:</p> <table style="width: 100%; border: none;"> <tr><td>CHE 4401</td></tr> <tr><td>CHE 4403</td></tr> </table>	CHE 2011	CHE 2012	CHE 2013	CHE 3201	CHE 3501	ES 3002	ES 3003	ES 3004	CHE 4401	CHE 4403	<p>Recommended to take first (required):</p> <p style="text-align: center;">CE 2001</p> <p>Choose at least three foundational courses from:</p> <table style="width: 100%; border: none;"> <tr><td>CE 2002</td><td>ES 3004</td></tr> <tr><td>CE 3010</td><td>CE 3041</td></tr> <tr><td>CE 3050</td><td>CE 3051</td></tr> <tr><td>CE 3059</td><td>CE 3020</td></tr> <tr><td>AREN 3003</td><td></td></tr> </table> <p>Choose remaining advanced courses from:</p> <table style="width: 100%; border: none;"> <tr><td>CE 3006</td><td>CE 3008</td></tr> <tr><td>CE 3060</td><td>CE 3070</td></tr> <tr><td>CE 3074</td><td>CE 3061</td></tr> <tr><td>CE 3062</td><td>CE 4061</td></tr> <tr><td>CE 4044</td><td>CE 4600</td></tr> <tr><td>AREN 3024</td><td>AREN 3002</td></tr> <tr><td>AREN 3020</td><td></td></tr> </table>	CE 2002	ES 3004	CE 3010	CE 3041	CE 3050	CE 3051	CE 3059	CE 3020	AREN 3003		CE 3006	CE 3008	CE 3060	CE 3070	CE 3074	CE 3061	CE 3062	CE 4061	CE 4044	CE 4600	AREN 3024	AREN 3002	AREN 3020		<p>Choose at least two courses in AI Applications in Business:</p> <table style="width: 100%; border: none;"> <tr><td>MIS 3730</td></tr> <tr><td>MIS 3787</td></tr> <tr><td>MIS 2300</td></tr> </table> <p>Choose at least one course in Business with AI or analytics content:</p> <table style="width: 100%; border: none;"> <tr><td>BUS 2080 or OIE 2081</td></tr> <tr><td>FIN 3330</td><td>MIS 3720</td></tr> <tr><td>MIS 4084</td><td>MIS 4741</td></tr> <tr><td>MKT 3650</td><td>OIE 3420</td></tr> <tr><td>OIE 3460</td><td>OIE 3510</td></tr> <tr><td>OIE 4430</td><td></td></tr> </table> <p>Choose at least one course to develop business knowledge:</p> <table style="width: 100%; border: none;"> <tr><td>ACC 2060</td><td>OIE 2850</td><td>ETR 2900</td></tr> <tr><td>BUS 2020</td><td>OIE 3405</td><td>MIS 3010</td></tr> <tr><td>FIN 2070</td><td>OIE 4460</td><td>OBC 1010</td></tr> <tr><td>ETR 1100</td><td>BUS 1020</td><td>OIE 3020</td></tr> <tr><td>ETR 4930</td><td>FIN 1250</td><td>OIE 3410</td></tr> <tr><td>MKT 4030</td><td>FIN 3300</td><td></td></tr> </table>	MIS 3730	MIS 3787	MIS 2300	BUS 2080 or OIE 2081	FIN 3330	MIS 3720	MIS 4084	MIS 4741	MKT 3650	OIE 3420	OIE 3460	OIE 3510	OIE 4430		ACC 2060	OIE 2850	ETR 2900	BUS 2020	OIE 3405	MIS 3010	FIN 2070	OIE 4460	OBC 1010	ETR 1100	BUS 1020	OIE 3020	ETR 4930	FIN 1250	OIE 3410	MKT 4030	FIN 3300		<p>At least two courses must be at the 3000-level or higher.</p> <p>Choose one course in Foundations of Designing Interactive Experiences from:</p> <table style="width: 100%; border: none;"> <tr><td>IMGD 1000</td></tr> <tr><td>IMGD 1001</td></tr> <tr><td>IMGD 1002</td></tr> </table> <p>Choose two courses in Critical and Ethical Design from:</p> <table style="width: 100%; border: none;"> <tr><td>IMGD 2000</td></tr> <tr><td>IMGD 2002</td></tr> <tr><td>WR/IMGD 2200</td></tr> </table> <p>Choose three courses in Experience Design from:</p> <table style="width: 100%; border: none;"> <tr><td>IMGD 2500</td><td>IMGD 2900</td></tr> <tr><td>CS 3041</td><td>IMGD 3100</td></tr> <tr><td>IMGD 3900</td><td>IMGD 4100</td></tr> <tr><td>IMGD 4200</td><td>IMGD 4600</td></tr> <tr><td>IMGD 4700</td><td>IMGD 4900</td></tr> <tr><td>IMGD 5100</td><td>IMGD 5300</td></tr> </table>	IMGD 1000	IMGD 1001	IMGD 1002	IMGD 2000	IMGD 2002	WR/IMGD 2200	IMGD 2500	IMGD 2900	CS 3041	IMGD 3100	IMGD 3900	IMGD 4100	IMGD 4200	IMGD 4600	IMGD 4700	IMGD 4900	IMGD 5100	IMGD 5300
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OPTIMIZATION AND DECISION THEORY CONCENTRATION	SOCIAL SCIENCE AND POLICY CONCENTRATION	LIFE SCIENCES AND MOLECULAR BIOCHEMISTRY CONCENTRATION																																																								
<p>Required foundational courses (must take both) from:</p> <table style="width: 100%; border: none;"> <tr><td>MA 1024</td></tr> <tr><td>Either 2621 or MA 2631</td></tr> </table> <p>Choose one course in Linear Programming or Decision Theory from:</p> <table style="width: 100%; border: none;"> <tr><td>MA 2210</td></tr> <tr><td>MA 3231</td></tr> </table> <p>Choose two courses in Optimization and Tools of Decision Theory from:</p> <table style="width: 100%; border: none;"> <tr><td>MA 3233</td></tr> <tr><td>MA 4235</td></tr> <tr><td>MA 4237</td></tr> </table> <p>Choose one course from:</p> <table style="width: 100%; border: none;"> <tr><td>MA 2073</td><td>MA 4237</td><td>MA 4235</td></tr> <tr><td>MA 2271</td><td>MA 2251</td><td>MA/DS 4635</td></tr> <tr><td>MA 3231</td><td>MA 2273</td><td></td></tr> <tr><td>MA 3257</td><td>MA 3233</td><td></td></tr> </table>	MA 1024	Either 2621 or MA 2631	MA 2210	MA 3231	MA 3233	MA 4235	MA 4237	MA 2073	MA 4237	MA 4235	MA 2271	MA 2251	MA/DS 4635	MA 3231	MA 2273		MA 3257	MA 3233		<p>At least one course must be at the 4000/500 level.</p> <p>Required (must take all three):</p> <table style="width: 100%; border: none;"> <tr><td>PSY 1500</td></tr> <tr><td>SS 1700</td></tr> <tr><td>SS/PSY 2503</td></tr> </table> <p>Choose at least three from:</p> <table style="width: 100%; border: none;"> <tr><td>PSY 1400</td><td>SD 1510</td></tr> <tr><td>GOV 2100</td><td>GOV 2302</td></tr> <tr><td>GOV 2313</td><td>PSY 2403</td></tr> <tr><td>PSY 2411</td><td>ENV 2720</td></tr> <tr><td>ENV 2900</td><td>PSY 3408</td></tr> <tr><td>SS 3043</td><td></td></tr> </table> <p>Special Topics Course, when relevant:</p> <table style="width: 100%; border: none;"> <tr><td>ECON 1800</td><td>PSY 1800</td><td>ENV 2800</td></tr> <tr><td>ECON 2800</td><td>PSY 2800</td><td>ENV 4800</td></tr> <tr><td>ECON 3800</td><td>PSY 3800</td><td></td></tr> <tr><td>ECON 4800</td><td>PSY 4800</td><td></td></tr> </table>	PSY 1500	SS 1700	SS/PSY 2503	PSY 1400	SD 1510	GOV 2100	GOV 2302	GOV 2313	PSY 2403	PSY 2411	ENV 2720	ENV 2900	PSY 3408	SS 3043		ECON 1800	PSY 1800	ENV 2800	ECON 2800	PSY 2800	ENV 4800	ECON 3800	PSY 3800		ECON 4800	PSY 4800		<p>Required courses (must take all four):</p> <table style="width: 100%; border: none;"> <tr><td>CH 1030</td></tr> <tr><td>CH 2310</td></tr> <tr><td>CH 4110</td></tr> <tr><td>CH 4210</td></tr> </table> <p>Choose two of the following courses:</p> <table style="width: 100%; border: none;"> <tr><td>CH 2320</td><td>CH 4120</td></tr> <tr><td>CH 3520</td><td>CH 4130</td></tr> <tr><td>CH 3550</td><td>CH 4140</td></tr> </table> <p>To be prepared for this concentration, students are encouraged to take the introductory courses CH1010, CH1020 or equivalent (which serve as recommended background for CH1030).</p> <p>CH1010 and CH1020 may be used to fulfill the Natural or Engineering Sciences requirement, but cannot be counted towards the 6 courses specifically required for the concentration.</p>	CH 1030	CH 2310	CH 4110	CH 4210	CH 2320	CH 4120	CH 3520	CH 4130	CH 3550	CH 4140
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MA 2271	MA 2251	MA/DS 4635																																																								
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WPI

Office of
Academic
Advising

4-year Plan Template

Name:	Class Year:
Advisor(s):	Major(s)/Minor(s):

Year 1					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 2					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 3					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 4					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes: