# ROBOTICS ENGINEERING MAJOR Program Tracking Sheet

Effective for students entering AY 2025-2026

			Епесиче т	or studen
Nan	ne:			
Advi	isor:			
- 10.11	<del></del>			
OTE	S: Minimum total academic credit			
	Residency Req.: Min. of 8 units	must be completed	at WPI	
IJΜΔ	INITIES AND ARTS (2 units)			
	UA courses must be completed be	efore beginning the I	nquiry Semir	nar
	cticum. The Humanities and Arts			
	num of 1/3 unit of AP credit towa	ards the Humanitie	s and Arts	
_	ement. th Component			
	dents must complete at least thre	e thematically-relat	ed courses r	orior to
	culminating Inquiry Seminar or P			
	t one of the three courses should			
	Course	Term	Grade	Units
1				1/3
2				1/3 1/3
4	HU 3900 or HU 3910			1/3
•	adth Component			170
	lents must take at least one cours	se outside the group	ing in which	they
	plete their depth component. To i			
	following manner.			
	rt/art history, drama/theatre, and i		;	
	nodern languages (AB, CN, ISE, C			
	terature and writing rhetoric (EN, Victory, humanities, and internation		/⊔I ⊔II IN	ITI \
	istory, humanities, and internatior hilosophy and religion (PY, RE).	iai and globai studie	es (mi, mu, ir	NIL);
	eption: May take all six courses ir	n a modern language	е.	
5				1/3
	nanities Elective		<b>.</b>	
6	NEGO AND DUNGIONI EDUCAT	(A) (A) (DE )	1/0 ://	1/3
ELL	NESS AND PHYSICAL EDUCATI	ON (4 WPE classes	= 1/3 unit)	1/12
				1/12
7				1/12
ŀ				1/12
OCIA	AL SCIENCE (2/3 unit) ECON, EN	V, GOV, PSY, SD, S	SOC, SS,	
	DEV, and ID2050			
8				1/3
9				1/3
	TERACTIVE QUALIFYING PRO	JECT (1 unit)		
10				1/3
11				1/3
12	EL ECTIVEC (4:4)			1/3
	ELECTIVES (1 unit)	1		1/3
13 14				1/3
15				1/3
īŪ				1/0
ΑТН	EMATICS (7/3 units) Courses wit	h prefix: MA		
	nclude Differential and Integral Cal		quations, Line	ear
	a, and Probability	,	, , =	
16	MA 1021 (Calc 1)			1/3
17	MA 1022 (Calc 2)			1/3
18	MA 1023 (Calc 3)			1/3
19	MA 1024 (Calc 4)			1/3
20	MA 2051 (Diff Eqs)	1		1/3

MA 2071 (Lin Alg)

MA 2621/2631 (Probability)

BASIC SCIENCE	(4/3 units)
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Class Year:

2<sup>nd</sup> Major:

PHYSICS	(2/3 u	nit) Co	urses with	prefix: PH

FIT SICS (2/3 utilit) Courses with prefix. 1 11						
23	Recommended: PH 1110/1111			1/3		
24	Recommended: PH 1120/1121			1/3		
OTHER SCIENCE (2/3 unit) Courses with prefix: BB/CH/GE/PH						
25				1/3		
26				1/3		
ENTREPRENEURSHIP (1/3 unit)						
27	E.g., ETR 1100; Other ETR; BUS 2001			1/3		

### **SOCIAL IMPLICATIONS (1/3\* unit)**

At least 1/3 unit of Social Implications in Technology (CS3043, GOV2302, GOV/ID 2314, RBE 3100)

	•	
43		1/3

#### **ENGINEERING SCIENCE AND DESIGN (6\*\* units)**

**ROBOTICS ENGINEERING** (5/3 units)

Must include at least 5/3 units in Robotics Engineering, including RBE 2001, 2002, 3001, 3002 or equivalent. RBE 3100 may not be used to fulfill this requirement.

28	RBE 1001† (Intro Robotics)	1/3
29	RBE 2001 (Unified Robotics 1)	1/3
30	RBE 2002 (Unified Robotics 2)	1/3
31	RBE 3001 (Unified Robotics 3)	1/3
32	RBE 3002 (Unified Robotics 4)	1/3

# **COMPUTER SCIENCE** (1 unit)

At least 1 unit in Computer Science, including Object-Oriented Programming and Software Engineering

unu O	and contware Engineering						
33	Recommended: CS 1005 Double CS/RBE majors should consider CS 1101/1102		1/3				
34	Object Oriented (e.g., CS 2102)		1/3				
35	Software Eng. (e.g. CS 3733)		1/3				

#### **ELECTRICAL AND COMPUTER ENGINEERING (2/3 unit)**

At least 2/3 unit in Electrical and Computer Eng., including Embedded Systems.					
36	Recommended: ECE 2010			1/3	
37	Embed. Sys. (e.g., ECE 2049 or			1/3	
	RBF 2020)				

# ENGINEERING SCIENCE (2/3 unit) Course with prefix: ES

At least 1/3 unit in Statics and 1/3 unit in Controls

	38	Statics (e.g., ES 2501)		1/3
Ī	39	Controls (e.g. ES 3011/ME 3703/ECE		1/3
		3012)		

# ENGINEERING SCIENCE AND DESIGN ELECTIVES (1 unit)

At least 2/3 unit must be at the 4000 level or higher.

1/3

1/3

40				1/3		
41				1/3		
42				1/3		
MAJO	MAJOR QUALIFYING PROJECT (1 unit)					

	44	•		1/3
	45			1/3
Г	46			1/3

<sup>\*</sup> If GOV 2302, or GOV/ID 2314 are double-counted as meeting the Social Science Requirement and the Social Implications Requirement, then the Distribution Requirements total 10 units, otherwise the Distribution Requirements total 10 1/3 units.

<sup>\*\*</sup> Specific courses listed above are given as examples only. Alternatives exist for all requirements, including equivalent courses, independent study/project work, experimental courses and graduate courses.

 $<sup>^\</sup>dagger$  Students entering with a strong robotics background should consider substituting a more advanced RBE course.



# Office of Academic Advising

# 4-year Plan Template

Name:					Class Year:		
Advisor(s):					Major(s)/Minor(s):		
			Year 1				Notes:
	A-term	B-term	C-term	D-ter	m E-term (optional)		
Course 1							
Course 2							
Course 3							
Course 4 (optional)							
						1	
			Year 2				Notes:
	A-term	B-term	C-term	D-ter	m E-term (optional)		
Course 1							
Course 2							
Course 3 Course 4							
(optional)							
							Notes:
			Year 3				Notes:
	A-term	B-term	C-term	D-ter	m E-term (optional)		
Course 1							
Course 2 Course 3							
Course 4							
(optional)							
			Year 4				Notes:
	A-term	B-term	C-term	D-ter	m E-term (optional)		
Course 1							
Course 2							
Course 3							
Course 4							

(optional)