ROBOTICS ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering AY 2020-2021

Advisor:				Class Year: 2 nd Major:			
Residency Req.: Min. of	8 units must be completed at	WPI		23	PH 1110/1111 (Mechanics)		1/3
	,			24	PH 1120/1121 (E&M)		1/3
HUMANITIES AND ARTS (2 units				OTI	HER SCIENCE (2/3 unit) Courses with prefix	x: BB/CH/GE/PH	
All 5 HUA courses must be completed before beginning the Inquiry Seminar				25			1/3
or Practicum.				26			1/3
Depth Component		_		<u>-</u>			
Students must complete at least the				ENT	FREPRENEURSHIP (1/3 unit)		
the culminating Inquiry Seminar o			ea. At	27	ETR 1100/3633/Other		1/3
least one of the three courses sho			11.9				
Course	Term G	rade	Units	<u>SO(</u>	CIAL IMPLICATIONS (1/3* unit)		
1			1/3		ast 1/3 unit of Social Implications in Technology	CS3043, GOV2302, G	3OV/ID
2			1/3	2314	1, RBE 3100)		
3			1/3	43			1/3
4 HU 3900 or HU 3910 Breadth Component			1/3		GINEERING SCIENCE AND DESIGN (6** ι	!4\	
the following manner. i. art/art history, drama/theatre, a ii. foreign languages (AB, CN, EN					2, 3001, 3002 or equivalent. RBE 3100 may uirement. RBE 1001†(Intro Robotics)	Thor be used to fullill	1/
iii. literature and writing rhetoric (EN, WR, RH);				29	RBE 2001 (Unified Robotics 1)	+	1/3
iv. history and international studies (HI, HU, INTL);				30	RBE 2002 (Unified Robotics 2)		1/3
v. philosophy and religion (PY, RE).				31	RBE 3001 (Unified Robotics 3)		1/3
Exception: May take all six course				32	RBE 3002 (Unified Robotics 4)		1/3
5			1/3		MPUTER SCIENCE (1 unit)		
Humanities Elective					east 1 unit in Computer Science, including C	bject-Oriented Prog	rammin _i
6			1/3		Software Engineering		
PHYSICAL EDUCATION (4 PE c	asses = 1/3 unit)			33	CS 1101/1102 (Intro Pg Des)		1/3
			1/12	34	CS 2102 (Object Oriented)		1/3
7			1/12	35	CS 3733 (Software Eng)		1/3
			1/12		CTRICAL AND COMPUTER ENGINEERIN		
			1/12		ast 2/3 unit in Electrical and Computer Engineeri	ng, including Embedde	
SOCIAL SCIENCE (2/3 unit) ECC	ON, ENV, GOV, PSY, SD, SO	C, SS,	STS	36	ECE 2029 (Digital Circuits)		1/3
and ID2050	1 1		1.0	37	ECE 2049 (Embedded Sys)	h	1/
8			1/3		GINEERING SCIENCE (2/3 unit) Course wit last 1/3 unit in Statics and 1/3 unit in Controls	n prefix: ES	
9	DDO IFOT (4:1)		1/3				1.10
THE INTERACTIVE QUALIFYING	PROJECT (T UNIT)		110	38	ES 2501 (Statics)		1/3
10			1/3	39	ES 3011/ME3703 (Controls)	TIVEC (4:4\	1/3
11			1/3		GINEERING SCIENCE AND DESIGN ELEC	·IIVE9 (I UNIT)	
12			1/3		ast 2/3 unit must be at the 4000 level or higher.		1
FREE ELECTIVES (1 unit)			1/0	40		 	1/3
13			1/3	41		 	1/3
14			1/3	42	IOD OHALIEVING DDG IEGT (4	<u> </u>	1/3
15			1/3		JOR QUALIFYING PROJECT (1 unit)	 	4 "
				44			1/3
MATHEMATICS (7/3 units) Coun Must include Differential and Integral		- e: -	Linear	45 46			1/3

1/3

1/3

1/3

1/3

1/3

1/3

1/3

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.

1/3

1/3

- ** 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.
- † Students entering with a strong robotics background should substitute a more advanced RBE course.

16 MA 1021 (Calc 1)

17 MA 1022 (Calc 2)

18 MA 1023 (Calc 3)

19 MA 1024 (Calc 4)

20 MA 2051 (Diff Eqs)

21 MA 2071 (Lin Alg)

²² MA 2621/2631 (Probability) BASIC SCIENCE (4/3 units)