ROBOTICS ENGINEERING MAJOR Program Tracking Sheet Based on AY 2015-16 Degree Requirements and Course Offerings

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 REQUIREMENT (2 units)

All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum.

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, EN/TH, MU);
- ii. foreign languages (AB, CN, EN, GN, SP);
- iii. literature and writing rhetoric (EN, WR, RH);
- iv. history and international studies (HI, HU, INTL);
- v. philosophy and religion (PY, RE).

Exception: May take all six courses in a foreign language

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5				1/3	
Hun	Humanities Elective				
6				1/3	

PHYSICAL EDUCATION (4 PE classes = 1/3 unit)

		1/12
7		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 (1 unit)

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

FREE ELECTIVES (1 unit)

	- ()		
13			1/3
14			1/3
15			1/3

MATHEMATICS REQUIREMENT (7/3 units) Courses with prefix: MA Must include Differential and Integral Calculus, Differential Equations, Linear Algebra, 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)	1/3
21	MA 2071 (Lin Alg)	1/3
22	MA 2621/2631 (Probability)	1/3

BASIC SCIENCE REQUIREMENT (4/3 units)

PHYSICS (2/3 unit) Courses with prefix: PH

PHIS	(2/3 unit) Courses with prefix: PH			
23	PH 1110/1111 (Mechanics)			1/3
24	PH 1120/1121 (E&M)			1/3
OTHE	R SCIENCE (2/3 unit) Courses with prefix	: BB/CH/GE/	PH	
25				1/3
26				1/3

ENTREPRENEURSHIP REQUIREMENT (1/3 unit)

27	ETR 1100/3633/Other			1/3
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SOCIAL IMPLICATIONS REQUIREMENT (1/3* unit)

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

43		1/3

ENGINEERING SCIENCE AND DESIGN REQUIREMENT (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

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) Courses with prefix: CS

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

33	CS 1101/1102 (Intro Pg Des)	1/3
34	CS 2102 (Object Oriented)	1/3
35	CS 3733 (Software Eng)	1/3

ELECTRICAL AND COMPUTER ENGINEERING (2/3 unit)

Courses with prefix: ECE

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

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

38	ES 2501 (Statics)		1/3
39	ES 3011/ME3703 (Controls)		1/3

ENGINEERING SCIENCE AND DESIGN ELECTIVES (1 unit)

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

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

MAJOR QUALITING I ROJECT (Turin)					
	44				1/3
	45				1/3
	46				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.
- ** 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.