

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

(Rev. 07/08)

Department of Electrical Engineering and Computer Science

M.ENG and S.B. Requirements Checklist

M.Eng. In 6P (Electrical Engineering and Computer Science)

S.B. in 6-1/6-1A (Electrical Engineering) through the Class of 2010

S.B. in 6-2/6-2A (Electrical Engineering and Computer Science) through the Class of 2010

S.B. in 6-3/6-3A (Computer Science) through the Class of 2010

Students in the Class of 2011 and beyond, and those in 2010 electing the new curricula must use:

<http://www.eecs.mit.edu/ug/newcurriculum/index.html>

Name _____	ID _____
Expected Grad. Dates: S.B. _____	M.Eng. _____
Current GPA/Cum _____	Advisor _____

INSTITUTE REQUIREMENTS				
	Subject	Term	Grade	EDP
Chemistry	3.091/5.11			
Biology	7.01____			
Calculus	18.01____			
	18.02____			
Physics	8.01____			
	8.02____			
Institute Lab (normally EECS Institute Labs)				
REST * (previously SCI-D) Choose two.				
HASS requirement: HASS-D				
HASS-D				
HASS-D				
Concentration				
Concentration				
Concentration				
Conc/Elective				
Elective				

DEPARTMENT REQUIREMENTS						
	Subject	Term	Units	Grade	EDP	G
Common Core	6.001		15		4	
	6.002		15		4	
	6.003		15		4	
	6.004		15		4	
Mathematics 2 subjects for the SB: 6-1 6.041 or 18.440 6-2 6.041, 18.440, or 6.042J 6-3 6.042J	18.03		*			
			*			
2 additional subjects for M.Eng: (6.041 or 18.440; 18.04 or 18.075; 18.06 or 18.700; 6.042J, 18.085, 18.086, 18.100, 18.311, 18.330, 18.353, 18.703, 18.781)						
Engineering Concentrations	Total (see back)					
Department Lab† 6-1, 6-2: one from 6.100 through 6.182†† 6-3: 6.170††						
Master's Thesis or Advanced Proj. SB: 6.UAT/6.UAP M.Eng: 6ThM						
Current Totals						
Total Required: (Not including GIRs)						
S.B. only			180		48	
S.B./M.Eng.			270		48	90**

Unrestricted Electives (Everything Else!)					
Subject	Term	Units	Grade	EDP	G

* If used for REST, then no units count toward total.

** 66 (including 42 Grad-H) plus 24 thesis = 90

† 3rd Year CI-M : Juniors must take at least one of the Course VI 3rd year CIM classes [www.eecs.mit.edu/communication.html].

††6.005 may be substituted for 6.170.

ENGINEERING CONCENTRATIONS

(From the 2008-2009 Bulletin)

	Subject	Term	Units	Grade	EDP
Artificial Intelligence and Applications (CS) Header: 6.034 Undergraduate Electives: 6.038*, 6.039*, 6.142, 6.801, 6.803, 6.804, 6.807, 6.815, 6.837, 9.39* Graduate H- and G-level Electives: 6.345, 6.825, 6.831, 6.832, 6.833, 6.834, 6.835, 6.836*, 6.838, 6.839, 6.863, 6.864, 6.865, 6.866, 6.867, 6.868, 6.869, 6.870, 6.871*, 6.872, 6.873, 6.874, 6.877, 6.881, 6.882, 6.886, 6.887, 6.891, 6.892, 6.945, 6.946 Approved Substitution: _____					
Bioelectrical Engineering Concentration (EE) Header: 6.021† Undergraduate Electives: 6.022, 6.023, 6.024, 6.502, 6.801, 9.35 Graduate H- and G-level Electives: 6.343*, 6.345, 6.524, 6.541, 6.542, 6.543, 6.551, 6.552, 6.555, 6.556, 6.561, 6.566*, 6.581, 6.582, 6.863, 6.872, 6.873, 6.971, 6.985, 20.320, 20.481 Approved Substitution: _____					
Communication, Control, and Signal Processing (EE) Header: 6.011 Undergraduate Electives: 6.401*, 16.36 Graduate H- and G-level Electives: 6.231, 6.241, 6.242, 6.243, 6.245, 6.251, 6.252, 6.253, 6.254, 6.255, 6.256, 6.262, 6.263, 6.264, 6.281, 6.282, 6.302(G), 6.336, 6.337, 6.338, 6.339, 6.341, 6.342, 6.343*, 6.344, 6.345, 6.432*, 6.433*, 6.434, 6.435, 6.436, 6.437, 6.438, 6.440, 6.441, 6.442, 6.443, 6.450, 6.451, 6.452, 6.453, 6.455, 6.456, 6.555, 6.855, 6.972, 6.986, 6.989 Approved Substitution: _____					
Computer Systems and Architecture Engineering (CS) Header: 6.033† Undergraduate Electives: 6.035, 6.805 Graduate H- and G-level Electives: 6.338, 6.375, 6.821, 6.823, 6.824, 6.826, 6.827, 6.828, 6.829, 6.830, 6.831, 6.846, 6.857, 6.872, 6.883, 6.884, 6.888, 6.893, 6.894 Approved Substitution: _____					
Devices, Circuits, and Systems (EE) Header: 6.012 Undergraduate Electives: 6.151*, 6.152, 6.701 Graduate H- and G-level Electives: 6.301(G), 6.302(G), 6.331, 6.334, 6.374, 6.375, 6.376, 6.719, 6.720, 6.728, 6.729, 6.730, 6.731, 6.732, 6.763, 6.772, 6.773*, 6.774, 6.775, 6.776, 6.777, 6.778, 6.780, 6.781, 6.789, 6.973, 6.987 Approved Substitution: _____					
Electrodynamics and Energy Systems (EE) Header: 6.013† Undergraduate Electives: 6.014*, 6.061, 6.312*, 6.602, 6.608 Graduate H- and G-level Electives: 6.334, 6.339, 6.443, 6.453, 6.561, 6.601*, 6.621, 6.630, 6.631, 6.632, 6.633*, 6.634, 6.635, 6.637, 6.638, 6.641, 6.642, 6.651, 6.661*, 6.671*, 6.672*, 6.673, 6.683*, 6.685, 6.686*, 6.690, 6.691, 6.728, 6.789, 6.974, 6.988 Approved Substitution: _____					
Theoretical Computer Science (CS) Header: 6.046†† Undergraduate Electives: 6.044*, 6.045, 6.047, 18.433 Graduate H- and G-level Electives: 6.251, 6.336, 6.337, 6.338, 6.339, 6.440, 6.840, 6.841, 6.842, 6.844, 6.850, 6.851, 6.852, 6.854, 6.855, 6.856, 6.859, 6.875, 6.878, 6.885, 6.889, 6.890, 6.895, 6.896, 18.435 Approved Substitution: _____					

*** Subjects no longer offered. # For students through Class of 2007 only.**

M.Eng 6-P students take a header and 2 electives from 1 EC, and a header and 1 elective from each of 2 other ECs, and 2 additional headers or electives from any of the 7 ECs. Hence the pattern: 3-2-2-xx. They must also satisfy 1 of the programs below:

6-1s take the headers from 3 of the 4 EE Concentrations, 1 elective from 1 of those 3 ECs, and one additional header or elective from any of the 7 ECs.

Hence the pattern: 2-1-1-x.

6-3s take the headers from the 3 CS Concentrations, 1 elective from 1 of those 3 ECs, and one additional header or elective from any of the 7 ECs.

Hence the pattern: 2-1-1-x.

6-2s take headers from 2 of the 4 EE Concentrations and from 2 of the 3 CS Concentrations, and 1 additional header or elective from any of the 7 ECs.

Hence the pattern: 1-1-1-1-x.

6-1 and 6-2 students taking both 6.021 & 6.022 may use 6.022 to satisfy the department laboratory requirement; 6.022 cannot then be used as an EC elective. †6.007 may be substituted for 6.013, which can then be used as an EES EC elective. ††6.006 may be substituted for 6.046 which can then be used as a TCS EC elective.