

# MASSACHUSETTS INSTITUTE OF TECHNOLOGY

(Rev. 07/07)

*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
<b>Common Core</b>	6.001		15		4	
	6.002		15		4	
	6.003		15		4	
	6.004		15		4	
<b>Mathematics</b>	18.03		*			
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				*		
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)						
<b>Engineering Concentrations</b>	Total (see back)					
<b>Department Lab†</b>						
6-1, 6-2: one from 6.100 through 6.182 6-3: 6.170						
<b>Master's Thesis or Advanced Proj.</b>						
SB: 6.UAT/6.UAP M.Eng: 6ThM						
<b>Current Totals</b>						
Total Required: (Not including GIRs)						
<b>S.B. only</b>			180		48	
<b>S.B./M.Eng.</b>			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].

**ENGINEERING CONCENTRATIONS**  
(From the 2007-2008 Bulletin)

	Subject	Term	Units	Grade	EDP
<b>Artificial Intelligence and Applications (CS) Header: 6.034</b> Undergraduate Electives: 6.039*, 6.142, 6.801, 6.803, 6.804, 6.807, 6.835, 6.837, 9.39* Graduate H- and G-level Electives: 6.825, 6.831, 6.833, 6.834, 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, 6.891, 6.892, 6.945, 6.946 Approved Substitution: _____					
<b>Bioelectrical Engineering Concentration (EE) Header: 6.021†</b> Undergraduate Electives: 6.022, 6.023, 6.024, 6.025, 6.801, 5.07#, 7.05#, 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: _____					
<b>Communication, Control, and Signal Processing (EE) Header: 6.011</b> 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, 6.262, 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, 6.441, 6.442, 6.443, 6.450, 6.451, 6.452, 6.453, 6.455, 6.456*, 6.555, 6.855, 6.972, 6.986 Approved Substitution: _____					
<b>Computer Systems and Architecture Engineering (CS) Header: 6.033†</b> 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, 6.893, 6.894 Approved Substitution: _____					
<b>Devices, Circuits, and Systems (EE) Header: 6.012</b> 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, 6.376, 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: _____					
<b>Electrodynamics and Energy Systems (EE) Header: 6.013 or 6.014*</b> Undergraduate Electives: 6.014*, 6.061, 6.312*, 6.6.02 Graduate H- and G-level Electives: 6.334, 6.339, 6.443, 6.453, 6.561, 6.601(G)*, 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: _____					
<b>Theoretical Computer Science (CS) Header: 6.046</b> 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, 6.840, 6.841, 6.844, 6.850, 6.851, 6.852, 6.854, 6.855, 6.856, 6.859, 6.875, 6.878, 6.885, 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 who take both 6.021 and 6.022 may use 6.022 to satisfy the department laboratory requirement; 6.022 cannot then be used as an EC elective