

New Curriculum* - Class of 2011 Forward | Bachelors and M.Eng. Requirements Checklist

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, *Department of Electrical Engineering and Computer Science*

Bachelors in 6-1 (Electrical Engineering)

(Rev. 06/09)

Bachelors in 6-2 (Electrical Engineering and Computer Science)

Bachelors in 6-3 (Computer Science)

Students in the Classes before 2011, and those in the Class of 2010 electing the old curriculum must use:

http://www.eecs.mit.edu/ug/checklist1-2_04-15-09.pdf

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| Name: | ID: |
| Email: | Advisor: |

| INSTITUTE REQUIREMENTS | | | | DEPARTMENT REQUIREMENTS | | | |
|----------------------------------|---------------|------|-------|--|----------------------------|------|-------|
| | Subject | Term | Grade | | Subject | Term | Grade |
| Chemistry | 3.091/5.11 | | | Introductory (2) (6-1, 6-2, 6-3) Inst. Lab | 6.01 | | |
| Biology | 7.01____ | | | | 6.02 | | |
| Calculus | 18.01____ | | | Mathematics (2) 6-1: 18.03, 6.041 6-2: 18.03 or 18.06, 6.041 or 6.042 6-3: 18.03 or 18.06;6.042J | | | |
| | 18.02____ | | | | | | |
| Physics | 8.01____ | | | Foundations 6-1 (3 EE Foundations) 6-2 (4 Total: 2 EE Foundations and 2 CS Foundations) 6-3 (3 CS Foundations) | EE Foundations | | |
| | 8.02____ | | | | 6.002 | | |
| Institute Lab (1) | 6.01 (1/2) | | | | 6.003 | | |
| | and 6.02(1/2) | | | | 6.007 | | |
| REST (2) | | | | | EE or CS Foundation | | |
| 18.03 or 18.06 6.041 or 6.042 | | | | | 6.004 | | |
| | | | | | CS Foundations | | |
| HASS requirement: | | | | | 6.005 | | |
| HASS-D | | | | | 6.006 | | |
| HASS-D | | | | | Department Lab (1) | | |
| HASS-D | | | | 6-1, 6-2: 6.100 - 6.182, 6.035 or 6.813 | | | |
| Concentration | | | | 6-3: 6.172, 6.035, 6.813 | | | |
| Concentration | | | | Headers (3) 6-1: 3 EE Headers 6-2: 3 with at least 1 EE and at least 1 CS Header 6-3: 3 CS Headers | EE Headers | | |
| Concentration | | | | | 6.011 | | |
| Conc/Elective | | | | | 6.012 | | |
| Elective | | | | | 6.013 | | |
| | | | | | 6.021 | | |
| | | | | | CS Headers | | |
| | | | | | 6.033 | | |
| | | | | 6.034 | | | |
| | | | | 6.046 | | | |
| | | | | Advanced Undergraduate Subjects (2) | | | |
| | | | | 6.022, 6.023, 6.035, 6.045, 6.047, 6.061, 6.207, 6.301, 6.302, 6.602, 6.701, 6.801, 6.803, 6.804, 6.805, 6.813, 6.815, 6.837, 16.36 Approved substitution:_____ | | | |
| | | | | Advanced Project (2) | | | |
| | | | | 6.UAT | | | |
| | | | | 6.UAP | | | |

| Unrestricted Electives (Everything Else!) | | |
|--|------|-------|
| Subject | Term | Grade |
| | | |
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*For unit requirements, consult:
<http://web.mit.edu/catalogue/degre.engin.elect.shtml>

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

New M.Eng. Program in EECS for students who completed the new undergraduate curriculum

Four H-level graduate subjects totaling at least **42 units** of which at least **36 units** are from **EECS subjects**.

Two subjects (24 units) from Restricted Electives list

66 units total in graduate program; plus 24 units M.Eng. thesis (6.THM)

90 units TOTAL

Restricted Electives (2 subjects): 6.041, 18.04, 18.06, 6.042J, 18.085, 18.086, 18.100, 18.311, 18.330, 18.353, 18.703, 18.781, 18.440, 18.075, 18.700 Approved Substitutions: _____

Concentration Fields (one three-subject concentration from among the 2 AUS and 4 grad-H subjects; at least one must be grad-H.)

Artificial Intelligence AUS: 6.801, 6.803, 6.804, 6.805, 6.813 (not if used for UG lab), 6.815, 6.837,
Grad-H: 6.345, 6.831, 6.833, 6.835, 6.839, 6.836, 6.864, 6.865, 6.866, 6.868, 6.872, 6.881, 6.882, 6.886, 6.887, 6.945

Approved Substitution: _____

BioEECS AUS: 6.022, 6.023, 6.047

Grad-H: 6.522, 6.524, 6.345, 6.541, 6.542, 6.543, 6.551, 6.552, 6.555, 6.556, 6.561, 6.581, 6.582, 6.874, 6.877, 6.878, 6.971, 6.985

Approved Substitution: _____

Circuits AUS: 6.301, 6.302

Grad-H: 6.331, 6.334, 6.336, 6.337, 6.338, 6.339, 6.374, 6.375, 6.376, 6.775, 6.776, 6.973

Approved Substitution: _____

Communications AUS: 16.36.

Grad-H: 6.262, 6.263, 6.264, 6.265, 6.266, 6.434, 6.435, 6.436, 6.437, 6.440, 6.441, 6.442, 6.450, 6.451, 6.452, 6.453, 6.972

Approved Substitution: _____

Computer Systems AUS: 6.035 (not if used for UG lab), 6.172 (not if used for UG lab), 6.805, 6.814

Grad-H: 6.821, 6.823, 6.824, 6.826, 6.827, 6.828, 6.829, 6.830, 6.844, 6.846, 6.857, 6.883, 6.884, 6.888, 6.893

Approved Substitution: _____

Control AUS: 6.302. Grad-H: 6.231, 6.241, 6.242, 6.243, 6.245, 6.986

Approved Substitution: _____

Machine Learning, Vision, Graphics and Robotics AUS: 6.142, 6.801, 6.815, 6.837

Grad-H: 6.825, 6.832, 6.839, 6.865, 6.866, 6.867, 6.869, 6.886, 6.887, 6.891, 6.829

Approved Substitution: _____

Materials, Devices and Nanotechnology AUS: 6.602, 6.701.

Grad-H: 6.719, 6.720, 6.728, 6.729, 6.730, 6.731, 6.732, 6.763, 7.772, 6.774, 6.777, 6.778, 6.780J, 6.781, 6.789, 6.987

Approved Substitution: _____

Numerical Methods AUS: 6.207

Grad-H: 6.251, 6.252, 6.253, 6.254, 6.255, 6.256, 6.581, 6.673, 6.975

Approved Substitution: _____

Optics, Electromagnetics and Energy AUS: 6.061, 6.602

Grad-H: 6.621, 6.630, 6.631, 6.632, 6.634, 6.637, 6.638, 6.641, 6.422, 6.685, 6.691, 6.973, 6.987

Approved Substitution: _____

Signals and Systems Grad-H: 6.341, 6.342, 6.344, 6.345, 6.555, 6.556, 6.989

Approved Substitution: _____

Theoretical Computer Science AUS: 6.045, 6.047

Grad-H: 6.840, 6.841, 6.842, 6.850, 6.851, 6.852, 6.854, 6.856, 6.857, 6.875, 6.876, 6.878, 6.885, 6.889, 6.890, 6.895, 6.896

Approved Substitution: _____
