





### List of standard M.S.E.E. Courses as of 2018-2019

- 1) Any EE Dept. graduate course except EEHS E4900. Joint courses are included.
- 2) Any CS Dept. graduate course except COMS W4910 and those covering non-technical topics such as Writing, Presentation, Computers & Society, or Ethics. Joint courses are included.
- 3) Any regular, technical graduate-level Mechanical Engineering (ME) course. This does not include courses such as IEME E4310 or MECE E4999.
- 4) Any regular, technical graduate-level MSAE Program course. This does not include topics or project courses with significant non-technical content, or Material Science and Engineering Program (MSAE) E4999.
- 5) The following courses in Applied Math (APMA): 4001, 4101, 4150, 4200, 4204, 4300, 4301, 4400, 6209, 6301, 6302, 6304, 8308.
- 6) The following courses in Applied Physics (APPH, CHAP): 4008, 4010, 4090, 4100, 4110, 4112, 4120, 4130, 4200, 4210, 4300, 4301, 6081, 6082, 6085, 6091, 6101, 6102, 6110.
- 7) The following courses from Biomedical Engineering (BME): 4150, 4210, 4300, 4301, 4305, 4310, 4320, 4321, 4340, 4410, 4420, 4430, 4439, 4440, 4450, 4500, 4501, 4502, 4510, 4540, 4560, 4570, 4590, 4601, 4702, 4703, 4737, 4738, 4750, 4761, 4810, 4840, 4894, 4898, 6003, 6301, 6310, 6311, 6400, 6420, 6500, 6505. Note that courses offered jointly with EE are included in item one.
- 8) Any regular, technical 4000- or 6000-level Industrial Engineering and Operational Research (IEOR) course from areas 1 (Analytics) or 9 (Optimization), or 6000-level course from area 10 (Applied Probability) (see [www.ieor.columbia.edu](http://www.ieor.columbia.edu) for classifications). In addition, IEOR E4404 & IEOR E4530 are included.
- 9) Any regular, technical graduate-level Chemical Engineering (CHEN) course beyond CHEN E4001 & E4002. This does not include courses such as CHEN E4501 and CHEN E4690.
- 10) Any regular, technical graduate-level course in Engineering Mechanics (ENME).
- 11) The following courses from Civil Engineering (CIEN): 4226, 4232, 4233, 4234, 4241, 4242, 4253, 6232, 6246, 6248.
- 12) The following courses from Earth & Environmental Engineering (EAEE): 4050, 4101, 4163, EAEE 4200, 4210, 4250, CHEE E4252, 4255, 4257, 4304, 4530, 4901, 4950, 6132, 6150, 6151, 6200, 6201, 6208, 6210, 6212, 6228, 6240, 6252.
- 13) The following courses from Statistics (STAT): GR5206, GR5207, GR5221GR522, GR522, GR5224, GR5231, GR5232, GR5233, GR5234, GR5241, GR5242, GR5243, GR5261, GR5262, GR5263, GR5264, GR5265, GR5293.
- 14) The following courses from Mathematics (MATH): GU4007, GU4032, GU4041, GU4042, GU4043, GU4044, GU4045, GU4051, GU4052, GU4053, GU4061, GU4062, GU40625, GU4065, GU4081, GU4155, GU4391, GU4392, GR6307, GR6308, GR6151, GR6152, GR6153, GR6261, GR6262, GR6657, GR6175, GR6176, GR6343, GR6344, GR6402, GR6403, GR6000.
- 15) The following courses from Biology (BIOL): GR4011, GR6201, GU4001, GU4004, GU4022, GU4034, GU4041, GU4073, GU4300, GU4323, GU4501.
- 16) The following courses from Physics (PHYS): GU4003, GU4011, GU4012, GU4018, GU4019, GU4021, GU4022, GU4023, GU4040, GU4050, GR6010, GR6011, G6024, GR6036, GR6037, GR6038, G6040, GR6047, GR6050, GR6060, G6080, GR6082, G6083, GR6092, GR6094, G6099, GR8012, G8036, GR8040, G8041, GR8048, GR8049, G8050, GR8066, GR8069, GR8083.
- 17) The following courses from Chemistry (CHEM): G4221, G4230, G4332, G6222, G8223, G6231, G8232, G4102, G4147, G4148, G4154, G4172, G4071, G4103, G8104, G8106, G8111, G8109, W4312, GU4323, GU4324, G4168, G4169, G8130.

Note: There are likely other courses that would be acceptable to use as technical MSEE courses but do not yet appear in this list. For those courses, please send an email to [info@ee.columbia.edu](mailto:info@ee.columbia.edu) with the subject "MSEE Course Approval Request" that contains your UNI, the full course number and title, and links (or attachments) for the description and syllabus (if available).