

**Mechanical Engineering and Materials Science
Annotated Advising Check Sheet**

_____ Name

Date Taken Grade

Writing

1. Writing 101

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 Required of all Duke freshmen.

Mathematics and Natural Science

2. MATH 111L

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 5 Course Pratt Math Sequence.
 3. MATH 112

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 If 2 Math AP's, must still take at least 3 Math
 4. MATH 212

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 courses at Duke. Consult DUS if Math 212
 5. MATH 216

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 content is taken elsewhere.
 6. MATH 353

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 7. CHEM 101DL [or AP CHEM 20/21 (18/19)]

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 8. PHY 151L [or AP PHY 25] Freshmen Spring.

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 If AP credit for BOTH PHY 25 & 26, then must take
 9. PHY 152L [or AP PHY 26] Sophomore Fall

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 PHY 153L or certain higher level PHY courses w/ DUS
 10. Natural Science Elective* _____

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 approval for Physics requirement. This WILL NOT
 also satisfy the NS elective.*

Engineering

11. EGR 103L

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 Digital Computation taken by all Pratt freshman
 12. EGR 121L *take as freshman if possible*

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 Req'd for MEMS (late soph. transfers consult DUS)
 13. EGR 201L *prereq for EGR 244L, EGR 221L*

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 14. EGR 244L *prereq for ME 336L*

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 SPRING ONLY – Must complete before junior year!
 15. ME 221L *req'd prereqs: CHEM & EGR 201L*

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 16. EGR 224L ** *prereq for ME 344L*

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 SPRING ONLY
 17. ME 344L ** *prereq for ME 424*

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 18. ME 331L *prereq for ME 336*

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 19. ME 336L *prereq for ME 431L*

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 Must complete before senior year
 20. ME 321L *** *prereq for ME421L*

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 Must complete before senior year
 21. ME 421L *** *prereq for ME 424L*

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 FALL SENIOR YEAR ONLY
 22. ME 431L *prereq for ME 424L*

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 FALL SENIOR YEAR ONLY
 23. ME 424L *** *Capstone Design*

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 SPRING SENIOR YEAR ONLY
 24. 400-level ME elective 1 **** _____

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 25. 400-level ME elective 2 **** _____

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Humanities and Social Sciences

26. _____

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Area
 27. _____

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 Five required. At least one SS and 2 from remaining
 28. _____

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 Areas of Knowledge (FL, CZ, ALP). For depth, two
 29. _____

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 must be from the same department, and one of
 30. _____

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 those must be at the 200 level or higher (new
 numbering). Limit of 2 AP's here. Enter course
 designation.

Upper-Level Electives § (Two required)

31. _____

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 No AP's here.
 32. _____

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Electives

33. _____

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 Only two ½ credit PE courses & only two ½
 34. _____

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 credit music courses allowed. AP's can count.

* Approved courses for the class of 2014 and beyond are found on the MEMS website including BIO 20, 201, 202, 311, 215L; CHEM 201 DL, 210DL; EOS 201L, 202, 365; PHY 153L, 305, 361, 363, 513; higher alternatives require DUS approval.

** 2-semester Mechatronics sequence. EGR 224L (only taught in Spring) is a firm pre-requisite for ME 344L

*** 3-semester Mechanics & Design sequence. ME 321L Mechanical Analysis must be taken junior year as a firm pre-req for ME 421L (Fall only) which is a firm prereq for ME 424L Capstone Design (Spring only).

**** Courses taken beginning with Fall 2012 must be at 400 level. Exception: Independent Study ME 39x taken during junior year can could as an upper level ME Technical Elective.

§ HSS electives at the 200-level or higher may be used. Upper level engineering electives can be used, as can additional math and science electives. For each such case enter in this space the course title and course number to indicate level. Engineering electives at any level taken during freshman and sophomore years may be used.