Electrical & Computer Engineering

ECE with BME Second Major (matric ≥ 2018)

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Writing 10		Waiting	Semester Taken	Grade	Notes
Mathematics and Natural Science 2. MATH 111L [or AP credit for Math 21] 3. MATH 112L [or AP credit for Math 22] 4. MATH 121 5. MATH 216 6. MATH 315 7. Statistics elective 8. CHEM 101DL [AP credit for Chem 21] 9. CHEM 201DL or CHEM 210DL 10. PHY 151L [or AP credit for Physics 25] * 11. PHY 152L [or AP credit for Physics 26] * 12. Biology 201L [cannot use AP credit] ECE and BME Courses 13. EGR 101L 14. EGR 103L 15. CompSci 201 16. ECE 110L 17. ECE 230L 18. ECE 250D 19. ECE 270DL 20. ECE 280L 21. ECE Concentration Elective 1 ** 22. ECE Concentration Elective 2 ** 23. ECE Elective 24. BME 244L 25. EGR 201L 26. ME 211L 27. BME 260L 28. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective 30. Approved options: STA 130 or Math 230 or ECE 301 4. Any ECE course at the 300-level or above 4. Approved options: BME 436L or 464L 4. Humanities and Social Sciences **** Area 33. 4. Approved options: BME 436L or 464L	1	Writing Writing 101			٦
2. MATH 111L [or AP credit for Math 21] 3. MATH 1212 4. MATH 1216 5. MATH 216 6. MATH 353 7. Statistics elective	1.	Witting 101			
3. MATH 112L [or AP credit for Math 22] 4. MATH 216 5. MATH 216 6. MATH 353 7. Statistics elective		Mathematics and Natural Science			
4. MATH 212 5. MATH 216 6. MATH 353 7. Statistics elective	2.	MATH 111L [or AP credit for Math 21]			
5. MATH 216 6. MATH 353 7. Statistics elective 8. CHEM 101DL [AP credit for Chem 21] 9. CHEM 201DL or CHEM 210DL 10. PHY 151L [or AP credit for Physics 25] * 11. PHY 152L [or AP credit for Physics 26] * 12. Biology 201L [cannot use AP credit] ECE and BME Courses 13. EGR 101L 14. EGR 103L 15. CompSci 201 16. ECE 230L 18. ECE 250D 19. ECE 270DL 20. ECE 280L 21. ECE Concentration Elective 1 ** 22. ECE Concentration Elective 2 ** 23. ECE Elective 24. BME 244L 25. EGR 201L 26. ME 221L 27. BME 260L 28. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective Humanities and Social Sciences **** Area 33	3.	MATH 112L [or AP credit for Math 22]			
6. MATH 353 7. Statistics elective	4.	MATH 212			
7. Statistics elective	5.	MATH 216			
8. CHEM 101DL [AP credit for Chem 21] 9. CHEM 201DL or CHEM 210DL 10. PHY 151L [or AP credit for Physics 25] * 11. PHY 152L [or AP credit for Physics 26] * 12. Biology 201L [cannot use AP credit] ECE and BME Courses 13. EGR 101L 14. EGR 103L 15. CompSci 201 16. ECE 210L 17. ECE 230L 18. ECE 250D 19. ECE 270DL 20. ECE 270DL 20. ECE 280L 21. ECE Concentration Elective 1 ** 22. ECE Concentration Elective 2 ** 23. ECE Elective 24. BME 244L 25. EGR 201L 26. ME 221L 27. BME 260L 28. BME 3544. 29. BME 3544. 29. BME 301L or BME 303 *** 30. BME Advanced Elective 31. BME General Elective 32. BME Design Elective 33. BME Design Elective 34. BME Design Elective 35. GME 36. SME 446L 36. SME 36. SME 446L 37. Area	6.	MATH 353			
8. CHEM 101DL [AP credit for Chem 21] 9. CHEM 201DL or CHEM 210DL 10. PHY 151L [or AP credit for Physics 25] * 11. PHY 152L [or AP credit for Physics 26] * 12. Biology 201L [cannot use AP credit] ECE and BME Courses 13. EGR 101L 14. EGR 103L 15. CompSci 201 16. ECE 110L 17. ECE 230L 18. ECE 250D 19. ECE 270DL 20. ECE 280L 21. ECE Concentration Elective 1 ** 22. ECE Concentration Elective 2 ** 23. ECE Elective 24. BME 244L 25. EGR 201L 26. ME 221L 27. BME 260L 28. BME 354L 29. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective ** 31. BME General Elective 32. BME General Elective 33. Approved options: BME 436L or 464L Humanities and Social Sciences **** Area 33. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	7.	Statistics elective			
10. PHY 151L [or AP credit for Physics 25] *	8.	CHEM 101DL [AP credit for Chem 21]			
11. PHY 152L [or AP credit for Physics 26] *	9.	CHEM 201DL or CHEM 210DL			
ECE and BME Courses	10.	PHY 151L [or AP credit for Physics 25] *			
ECE and BME Courses 13. EGR 101L 14. EGR 103L 15. CompSci 201 16. ECE 110L 17. ECE 230L 18. ECE 250D 19. ECE 270DL 20. ECE 280L 21. ECE Concentration Elective 1 ** 22. ECE Concentration Elective 2 ** 23. ECE Elective 24. BME 244L 25. EGR 201L 26. ME 221L 27. BME 260L 28. BME 354L 29. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective 32. BME General Elective 33. BME General Elective 4 Approved options: BME 436L or 464L Humanities and Social Sciences **** Area 33. 44. 47. 48. 48. 49. 49. 40. 40. 40. 41. 42. 43. 44. 44. 44. 45. 46. 46. 47. 48. 48. 49. 49. 40.	11.	PHY 152L [or AP credit for Physics 26] *			
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25. EGR 201L 26. ME 221L 27. BME 260L 28. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective Humanities and Social Sciences **** Area 33.					Any ECE course at the 300-level or above
26. ME 221L 27. BME 260L 28. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective 33 34 35 36 36	24.	BME 244L			
27. BME 260L 28. BME 354L 29. BME 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective 33	25.	EGR 201L			
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29. BME 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective Humanities and Social Sciences **** Area 33 34 35 36 36	27.	BME 260L			
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32. BME Design Elective Approved options: BME 436L or 464L Humanities and Social Sciences ****	30.				
Humanities and Social Sciences **** 33	31.				
33	32.	BME Design Elective			Approved options: BME 436L or 464L
33		Humanities and Social Sciences ****	Area	a	
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36.					

^{*} To satisfy the Physics Requirement, students must take (or have AP credit for) PHYSICS 151L and 152L, and at least one physics course must be taken at Duke. If a student has AP credit for both 25 & 26, then one of PHYSICS 153L, 264, 361, 362, or 363 must be taken. Alternatively, AP credit for 26 can be waived by taking 152L. You do not have the option of taking PHY 151 and then using AP for PHY 26 -- unless the *only* Physics AP credit you have is for PHY 26.

^{**} Courses must be selected from the same concentration area.

^{***} If BME 301L is taken the Advanced Elective must be from the Electrobiology (EL) Area If BME 303 is taken the Advanced Elective must be from the Imaging and Measurement Systems (IM) Area

Five required. At least one SS and 2 from remaining areas of knowledge (FL, CZ, ALP). For depth, two must be from the same approved department or program --and one course must be at the 200-level, or above. See Pratt Policies & Procedures for detailed list of approved departments and programs (http://www.pratt.duke.edu/undergrad/policies/3505#humanities).