Electrical & Computer Engineering

ECE with BME Second Major (matric 2018 – 2020)

Name

Writing 10		Writing	Semester Taken	Grade	Notes
Mathematics and Natural Science	1.				٦
2. MATH 111L [or AP credit for Math 21] 3. MATH 1212 5. MATH 212 5. MATH 216 6. MATH 353 7. Statistics elective					_
3. MATH 112L [or AP credit for Math 22] 4. MATH 216 6. MATH 353 7. Statistics elective	2				٦
4. MATH 212 6. 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. COMPSC1 201 16. ECE 210L 17. ECE 230L 18. ECE 250D 19. ECE 270DL 20. ECE 270DL 21. ECE Concentration Elective 1 *** 22. ECE Concentration Elective 2 *** 23. EGR 201L 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 **** 32. BME Design Elective **** 33. Math 340 or EGR 238L or ECE 380		-			
5. MATH 216 6. MATH 353 7. Statistics elective					-
6. MATH 353 7. Statistics elective					-
7. Statistics elective Approved options: STA 130 or Stat 240L or Math 220 or Math 340 or ECR 2810 or ECR 350	-				
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. EGE 110L 17. EGE 230L 18. EGE 250D 19. EGE 270DL 20. EGE 280D 21. EGE Concentration Elective 1 *** 22. EGE Concentration Elective 2 *** 23. EGE 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 32. BME General Elective 33. BME General Elective 34. Approved options: BME 436L or 464L or 474L 35. Humanities and Social Sciences ***** 36. ME 231. Area 37. Area 38. Area 38. Approved options: BME 436L or 464L or 474L					Approved options: STA 130 or Stat 240L or Math 230 or
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 27. BME 260L 28. BME 354L 29. BME 354L 29. BME 301L or BME 303 **** 30. BME Advanced Elective **** 31. BME General Elective 13. EMBE General Elective 14. Approved options: BME 436L or 464L or 474L 15. Humanities and Social Sciences ***** 16. Area 17. Area 18. Area 18. Area 18. Area 18. Area 18. Area 18. Area	8	CHEM 101DL [AP credit for Chem 21]			
10. PHY 151L [or AP credit for Physics 25] *					
11. PHY 152L [or AP credit for Physics 26] *					
ECE and BME Courses					
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 301L or BME 303 *** 30. BME Advanced Elective **** 31. BME General Elective 32. BME Osign Elective 33. Approved options: BME 436L or 464L or 474L Humanities and Social Sciences ***** Area 33. Approved options: BME 436L or 464L or 474L					
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 301L or BME 303 *** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective 33. BME Design Elective 34. Approved options: BME 436L or 464L or 474L 35. GME 25. GME 26. GME 26. GME 27. Approved options: BME 436L or 464L or 474L 36. GME 27. Approved options: BME 436L or 464L or 474L 37. Approved options: BME 436L or 464L or 474L 38. GME 27. Approved options: BME 436L or 464L or 474L 39. Approved options: BME 436L or 464L or 474L 39. Approved options: BME 436L or 464L or 474L 39. Approved options: BME 436L or 464L or 474L 39. Approved options: BME 436L or 464L or 474L 39. Approved options: BME 436L or 464L or 474L 39. Approved options: BME 436L or 464L or 474L					_
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 301L or BME 303 **** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective 33. BME Design Elective 44. Approved options: BME 436L or 464L or 474L 45. EGR 33. Area 36. Area				T	
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 301L or BME 303 **** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective 33. BME Design Elective 34. Approved options: BME 436L or 464L or 474L 4 Area 35 36 36 37 38 38 39 39 39 39 39 39 39 39 39 39					
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 301L or BME 303 *** 30. BME General Elective 31. BME General Elective 32. BME Design Elective 33. BME Design Elective 34. Approved options: BME 436L or 464L or 474L 45. Humanities and Social Sciences ***** 46. Approved options: BME 436L or 464L or 474L 47. Area 33					
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 301L or BME 303 **** 30. BME Advanced Elective *** 31. BME General Elective 32. BME Design Elective 33. BME Design Elective 34. Humanities and Social Sciences ***** Area 35. 36. 36. 36. 36. 36. 36. 36. 36. 36. 36					
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 32. BME Design Elective 33. BME Design Elective 34. Area 35 36 36 37.					
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 32. BME Design Elective 33. BME Design Elective 34. Approved options: BME 436L or 464L or 474L 35. 36					_
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 32. BME Design Elective Humanities and Social Sciences **** Area 33. 34. 35. 36. 36.					4
21. ECE Concentration Elective 1 ***					4
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 32. BME Design Elective 4 Any ECE course at the 300-level or above					4
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 32. BME Design Elective Humanities and Social Sciences **** Approved options: BME 436L or 464L or 474L Humanities and Social Sciences **** Area 33.			-		Any ECE course at the 200 level on above
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 34 35 36 36					Any ECE course at the 300-level of 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					-
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					_
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 **** Approved options: BME 436L or 464L or 474L Approved options: BME 436L or 464L or 474L 33 34 35 36					-
29. BME 301L or BME 303 **** 30. BME Advanced Elective **** 31. BME General Elective					-
30. BME Advanced Elective **** 31. BME General Elective					-
31. BME General Elective Approved options: BME 436L or 464L or 474L Humanities and Social Sciences ***** Area 33					-
32. BME Design Elective Approved options: BME 436L or 464L or 474L Humanities and Social Sciences *****					-
Humanities and Social Sciences **** 33					Approved options: BME 436L or 464L or 474L
33		<u> </u>			_
34		Humanities and Social Sciences *****	Area	1	7
35					
36.					
3/.					4
	37.				J

Version F21 06.24.2021 42

^{*} 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 post-matriculation. If a student has AP credit for both 25 & 26, then one of PHYSICS 153L, 175, 264, 361, or 362 must be taken. Alternatively, AP credit for 26 can be waived by taking 152L.

^{**} Students who place into CompSci 201 are not required to take EGR 103L.

^{***} 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).