

M.S. / Ph.D. Degree Planner: Medical Devices and Systems (EC90)

COURSE REQUIREMENTS

Core Coursework (twelve units)

ECE 201	Introduction to Biophysics	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Core Courses</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;"></td> <td style="width: 50%;">ECE 201</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td colspan="2" style="text-align: right;">Total: 12 Units</td> </tr> </tbody> </table>	Core Courses			ECE 201					Total: 12 Units	
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Any 2 of the following courses:												
ECE 202	Medical Devices and Interfaces											
ECE 203	Biomedical Integrated Circuits and Systems											
ECE 204	Statistical Learning in Bioinformatics											
ECE 247 A-B-C	Advanced Biophotonics, Bioelectronics, Bionanotechnology	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Additional Courses</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td colspan="2" style="text-align: right;">Total: 12 Units</td> </tr> </tbody> </table>	Additional Courses								Total: 12 Units	
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ECE 187	Introduction to Biomedical Imaging and Sensing											

Twelve additional units selected from the following

Two graduate courses from the same major area of ECE (AOS, AP-EDM, AP-RSS, CTS, ECS, CE, ISRC, PHO, SIP or NDS)

One graduate or senior-level course in Biology, Biochemistry, or Medicine.

Some examples of courses that satisfy this requirement are: BENG 230A, BENG 230B, BENG 231, NANO 242, BGGN 235, BGGN 211, BGGN 223, BGGN 224, BGGN 242, and BGGN 249B-C. This is by no means a comprehensive list of courses and many more courses in biology, biochemistry, and medicine are offered by UCSD to meet the requirement. PhD students should discuss with their faculty advisor and M.S. students with their curriculum advisor to choose course(s) in biomedicine relevant to their graduate study.

Additional Courses	
Total: 12 Units	

Technical Electives (twenty-four units)

- Any 4 unit, 200+ course from ECE, CSE, MAE, BENG, CENG, NANO, SE, MATS MATH or PHYS taken for a letter grade may be counted. Exceptions to this list require departmental approval.
- Up to 12 units of undergraduate ECE coursework (ECE 111+ only) may be counted (**Only** 12 units of undergraduate credits in **TOTAL** may be counted towards the degree)
- M.S. Students (Plan II) are allowed no more than 4 units of 299 as technical electives. Ph.D. and M.S. Students (Plan I) are allowed no more than 8 units of 299 as technical electives.
- Students are strongly encouraged to take as least 2 seminar courses about translational research and FDA regulatory procedures and requirements from ECE, Center for Medical Device and Instrumentation, School of Medicine, or other departments. (Will NOT be counted toward required 48 units).

Technical Electives	
Total: 24 Units	

Curriculum Advisor:	Drew Hall
Phone no.:	858-534-3855
E-mail:	dahall@ece.ucsd.edu
Office no.:	Jacobs Hall/EBU1 4805

Advisor's Signature

Date

Student Name

Revised: 2016-17 Academic Year

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