

2018 ELECTRICAL ENGINEERING: Communications and Signal Processing Track
COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEGREE REQUIREMENT CHECKSHEET
UNIVERSITY OF CENTRAL FLORIDA

| GENERAL EDUCATION PROGRAM | | | | LOWER AND JUNIOR LEVEL REQUIRED COURSES | | | | | |
|---|-----|-----|-------------|---|-----|----|----|-----|-------------|
| * Indicates "C-" minimum required by the Gordon Rule | | | | EGS 1006C Intro to Engr Prof | 1 | # | | | |
| ** Indicates minimum "C" or better grade | | | | EGN 1007C Engr Concepts and Methods | 1 | # | | | |
| COMMUNICATION (9 SEM HRS) | SH | Grd | Trans Equiv | STA 3032 Probability & Statistics for Engrs | GEP | | | | |
| ENC 1101 | 3 | * | | PHY 3101 Physics for Engr and Sci III | 3 | | | | |
| ENC 1102 | 3 | * | | EEL 3926L Junior Design | 1 | | | | |
| SPC 1603 | 3 | | | EGN 3211 Engineering Analysis & Comp. | 3 | ** | | | |
| CULTURAL & HISTORICAL (9 SEM HRS) | | | | EEL 3021 Introduction to Applied Randomness for Engineers | 3 | | | | |
| Select 2: AMH 2010, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WOH 2012, WOH 2022 | 6 | * | | EEL 3004C Electrical Networks | 3 | ** | | | |
| Approved Cultural Foundations course: | 3 | | | EEL 3123C Networks and Systems | 3 | ** | | | |
| SOCIAL FOUNDATION - (6 SEM HRS) | | | | EEE 3307C Electronics I | 4 | | | | |
| ANT 2000/ PSY 2012/ SYG 2000 | 3 | | | EEE 3342C Digital Systems | 3 | ** | | | |
| ECO 2013 or ECO 2023 | 3 | | | EEL 3801C Computer Organization | 4 | ** | | | |
| SCIENCE - 6 SH | | | | EEL 3552C Signal Analysis & Analog Communication (name change) | 4 | | | | |
| GEO 1200 or GEO 2370 (either GEO is preferred) or BSC 1050C or BSC 1005C or GLY 1030 | 3 | | | JUNIOR LEVEL ELECTIVE COURSES (CHOOSE 2) | | | SH | Grd | Trans Equiv |
| PHY 2048C Physics I for Engrs | 4 | | | EEL 3470 Electromagnetic Fields | 3 | | | | |
| MATHEMATICAL - 6 SH | | | | EEL 3657 Linear Control Systems | 3 | | | | |
| MAC 2311 Calculus I | 4 | ** | | EEE 3350 Semiconductor Devices I | 3 | | | | |
| STA 3032 Prob & Stats for Engrs | 3 | | | SENIOR LEVEL REQUIRED COURSES | | | SH | Grd | Trans Equiv |
| GPA Gen Ed Prog = | 38 | | | EEL 4750 Digital Signal Processing Fund. | 3 | | | | |
| ENGINEERING CORE** | | | | EEL 4515C Fundamentals of Digital Communication Systems | 4 | | | | |
| MAC 2311 Calculus I | GEP | ** | | EEL 4742C Embedded Systems | 3 | | | | |
| MAC 2312 Calculus II | 4 | ** | | RECOMMENDED SENIOR LEVEL ELECTIVE COURSES | | | SH | Grd | Trans Equiv |
| MAC 2313 Calculus III | 4 | ** | | (CHOOSE MINIMUM 2 FROM LIST) | | | | | |
| MAP 2302 Differential Equations | 3 | ** | | EEL 4140C Analog Filter Design | 4 | | | | |
| CHS 1440 Chem for Engrs (or CHM 2045C) | 4 | ** | | EEL 4518 Satellite Communications | 3 | | | | |
| PHY 2048C Physics I for Engrs | GEP | ** | | EEL 4781 Computer Communication Networks | 3 | | | | |
| PHY 2049C Physics II for Engrs | 4 | ** | | EEE 5513 DSP Applications | 3 | | | | |
| SUBTOTAL SEM HRS | 19 | | | EEE 5542 Random Processes I | 3 | | | | |
| | | | | EEE 5557 Introduction to Radar Systems | 3 | | | | |
| | | | | EEL 5432 Satellite Remote Sensing | 3 | | | | |
| | | | | EEL 5780 Wireless Networks | 3 | | | | |
| | | | | EEL 5820 Image Processing or its equivalent course from CS | 3 | | | | |
| | | | | EEL 5582 Fundamentals of Wireless Communication | 3 | | | | |
| | | | | EEL 5268 Communications and Networking for Smart Grid | 3 | | | | |
| | | | | REQUIRED | | | | | |
| | | | | Technical Electives (EEE or EEL 4XXX or 5XXX) | 10 | ~ | | | |
| | | | | EEL 4914 Senior Design I | 3 | | | | |
| | | | | EEL 4915L Senior Design II | 3 | | | | |
| | | | | SUBTOTAL SEM HRS | 71 | | | | |
| | | | | GPA Engr Option = (2.250 minimum) | | | | | |
| ** A Grade of C (2.00) or higher required | | | | ADVISOR COMMENTS: | | | | | |
| # Transfer students please see your faculty advisor before registering for these classes. | | | | -BS-MS students should choose (3 SH) 5000 level courses as electives. | | | | | |