

UNIVERSITY OF THE DISTRICT OF COLUMBIA
SCHOOL OF ENGINEERING AND APPLIED SCIENCES
Department of Electrical and Computer Engineering
OFFICIAL ADVISORY FORM (Starting Fall 2017)

Program ELECTRICAL ENGINEERING

Name of Student _____ Student ID # _____

Name of Advisor _____ Room # _____

| First Semester | | | | Second Semester | | | |
|----------------------|--------------------------|---------|-------|----------------------|----------------------------|---------|-------|
| Course # | Subject | Credits | Grade | Course # | Subject | Credits | Grade |
| IGED 110 | Found. Writing I | 3 | | IGED 111 | Found. Writing II | 3 | |
| CHEM 111 | General Chemistry I Lec. | 3 | | MATH 152 | Calculus II Lec. | 3 | |
| CHEM 113 | General Chemistry I Lab | 1 | | MATH 156 | Calculus II Lab | 1 | |
| MATH 151 | Calculus I Lec. | 3 | | PHYS 201 | University Physics I Lec | 3 | |
| MATH 155 | Calculus I Lab | 1 | | PHYS 205 | University Physics I Lab | 1 | |
| CCEN 101 | Intro. to Elec.&Comp Eng | 2 | | APCT 231 | Intro. to Comp. Sci. I Lec | 3 | |
| IGED 130 | Found. Oral Comm. | 3 | | APCT 233 | Intro. to Comp. Sci. I Lab | 1 | |
| TOTAL CREDITS | | 16 | | TOTAL CREDITS | | 15 | |

| Third Semester | | | | Fourth Semester | | | |
|----------------------|----------------------------|---------|-------|----------------------|---|---------|-------|
| Course # | Subject | Credits | Grade | Course # | Subject | Credits | Grade |
| IGED 210 | Discovery Writing | 3 | | IGED 140 | Foundation Ethics | 3 | |
| PHYS 202 | University Physics II Lec. | 3 | | MATH 260 | Differential Eq. with Linear Alg. | 4 | |
| PHYS 206 | University Physics II Lab | 1 | | PHYS 203 | University Physics III Lec. | 3 | |
| CVEN 201 | Engineering Mechanics I | 3 | | PHYS 207 | University Physics III Lab | 1 | |
| ELEC 225 | Electrical Circuits Lec. | 3 | | ELEC 241 | Assembly Language and Microprocessor Lec. | 3 | |
| ELEC 226 | Electrical Circuits Lab | 1 | | ELEC 242 | Assembly Language and Microprocessor Lab | 1 | |
| TOTAL CREDITS | | 14 | | TOTAL CREDITS | | 15 | |

| Fifth Semester | | | | Sixth Semester | | | |
|----------------------|-------------------------|---------|-------|----------------------|--|---------|-------|
| Course # | Subject | Credits | Grade | Course # | Subject | Credits | Grade |
| ELEC 301 | Engineering Mathematics | 3 | | CVEN 308 | Applied Numerical Analysis for Engineers | 3 | |
| ELEC 315 | Comp. Organization Lec. | 3 | | ELEC 352 | Electronics II Lec. | 3 | |
| ELEC 316 | Comp. Organization Lab | 1 | | ELEC 354 | Electronics II Lab | 1 | |
| ELEC 351 | Electronics I Lec. | 3 | | ELEC 307 | Prob. and Stat. for Eng. | 3 | |
| ELEC 353 | Electronics I Lab | 1 | | ELEC 371 | Signals and Systems Lec. | 3 | |
| ELEC 356 | Physical Electronics | 3 | | ELEC 374 | Signals and Systems Lab | 1 | |
| ELEC 361 | Electromagnetic Theory | 3 | | IGED 280 | Discovery Civics | 3 | |
| TOTAL CREDITS | | 17 | | TOTAL CREDITS | | 17 | |

| Seventh Semester | | | | Eighth Semester | | | |
|----------------------|----------------------------|---------|-------|----------------------|-----------------------------|---------|-------|
| Course # | Subject | Credits | Grade | Course # | Subject | Credits | Grade |
| ELEC 467 | | 3 | | IGED 270 | Discovery Diversity | 3 | |
| ELEC 476 | Fund. of Comm. Lab | 1 | | ELEC 496 | Senior Project II (Capst.)* | 3 | |
| ELEC 470 | Control Sys. & Appl. Lec. | 3 | | ELEC xxx | Electrical Eng. Elective** | 4 | |
| ELEC 477 | Control Sys. & Appl. Lab | 1 | | ELEC xxx | Electrical Eng. Elective** | 3 | |
| ELEC 495 | Senior Project I (Capst.)* | 3 | | MECH 406 | Engineering Economics | 3 | |
| ELEC xxx | Electrical Eng. Elective** | 4 | | | | | |
| ELEC xxx | Electrical Eng. Elective** | 3 | | | | | |
| TOTAL CREDITS | | 18 | | TOTAL CREDITS | | 16 | |

TOTAL CREDITS

128

*Will contain intensive writing component

**Electrical Engineering Electives (most current) : ELEC 458, ELEC 469/473, ELEC 471, ELEC 474, ELEC 478/479, ELEC 480/483, ELEC 463, ELEC 461/462, MECH 487, MECH 478, MECH 461, ELEC410/510, ELEC420/520, or equivalent CS 400 level courses.

NOTE: The EE electives selected must have at least one lab course (4 credits for the course and lab).

A completed copy of this form must accompany each student's Graduation Clearance Form

Electrical Engineering Program Required Courses Pre-Requisites and Co-requisites

| Course # | Pre-Requisites | Co-requisites |
|----------|--|---------------|
| CCEN 101 | Engineering Freshman Status | None |
| CVEN 201 | PHYS 201, PHYS 205 | None |
| ELEC 225 | PHYS 201, PHYS 205 | ELEC 226 |
| ELEC 226 | PHYS 201, PHYS 205 | ELEC 225 |
| ELEC 241 | APCT 231, and APCT 233 | ELEC 242 |
| ELEC 242 | APCT 231, and APCT 233 | ELEC 241 |
| ELEC 301 | MATH 152, MATH 156, MATH 260 | None |
| ELEC 307 | MATH 152, MATH 156 | None |
| CVEN 308 | MATH 260 | None |
| ELEC 315 | ELEC 221, ELEC 223 | ELEC 316 |
| ELEC 316 | ELEC 221, ELEC 223 | ELEC 315 |
| ELEC 351 | ELEC 225, ELEC 226 | ELEC 353 |
| ELEC 352 | ELEC 351, ELEC 353 | ELEC 354 |
| ELEC 353 | ELEC 225, ELEC 226 | ELEC 351 |
| ELEC 354 | ELEC 351, ELEC 353 | ELEC 352 |
| ELEC 371 | ELEC 351, ELEC 353, ELEC 301 | ELEC 374 |
| ELEC 374 | ELEC 351, ELEC 353, ELEC 301 | ELEC 371 |
| MECH 406 | Senior Standing | |
| ELEC 467 | ELEC 307, ELEC 371, ELEC 374 | ELEC 476 |
| ELEC 470 | ELEC 371, ELEC 374 | ELEC 477 |
| ELEC 476 | ELEC 307, ELEC 371, ELEC 374 | ELEC 467 |
| ELEC 477 | ELEC 371, ELEC 374 | ELEC 470 |
| ELEC 495 | ELEC 315, ELEC 316, ELEC 352, ELEC 353, ELEC 371, ELEC 374 | None |
| ELEC 496 | ELEC 495 | None |

Electrical Engineering Program Elective Courses Pre-Requisites and Co-requisites

| Course # | Pre-Requisites | Co-requisites |
|----------|--|---------------|
| ELEC 410 | | |
| ELEC 420 | ELEC 352, ELEC 354 | None |
| ELEC 458 | ELEC 371, ELEC 374 | None |
| ELEC 461 | ELEC 352, ELEC 354 | ELEC 462 |
| ELEC 462 | ELEC 352, ELEC 354 | ELEC 461 |
| ELEC 463 | ELEC 352, ELEC 354, ELEC 361 | None |
| ELEC 469 | ELEC 467, ELEC 476, ELEC 307 | ELEC 473 |
| ELEC 471 | ELEC 470, ELEC 473 | |
| ELEC 473 | ELEC 467, ELEC 476, ELEC 307 | ELEC 469 |
| ELEC 480 | ELEC 315, ELEC 316 | ELEC 483 |
| ELEC 483 | ELEC 315, ELEC 316 | ELEC 480 |
| ELEC 478 | ELEC 315, ELEC 316, ELEC 352, ELEC 354 | ELEC 479 |
| ELEC 479 | ELEC 315, ELEC 316, ELEC 352, ELEC 354 | ELEC 478 |