# Engineering Dual Degree Requirements <br> Electrical Engineering \& Science, Technology and Society 

| University Core Curriculum |  |
| :---: | :---: |
| Common Core Requirements | Credits |
| FYS 101 First Year Seminar | 3 |
| FYS 102 First Year Seminar | 3 |
| GHS 201-209 Global and Historical Studies | 3 |
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| General Core Requirements | Credits |
| TI Text and Ideas | 3 |
| PCA Perspectives in the Creative Arts | 3 |
| SW The Social World (exempt) | 3 |
| AR Analytical Reasoning (exempt) | 3 |
| NW The Natural World (exempt) | 5 |
| PWB Physical Well-Being | 1 |
| Core Credits | 19(30) |
| Additional Core Requirements |  |
| BCR Butler Cultural Requirement | 8 events |
| ICR Indianapolis Community Requirement | 1 course |
| SAC Speaking Across the Curriculum | 1 course |
| WAC Writing Across the Curriculum | 1 course |
| Liberal Arts and Science Requirements | Credits |
| Foreign Language (min 6 cr 200 level or above) | 6-14 |
| Spanish, French, German, Chinese, Latin |  |
| Credits | 25-33 |


| Science, Technology and Society |  | Credits | Electrical Engineering |  |  | Credits 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 200 Intro to Science \& Technology Studies | 3 | ECON | 201 | Microeconomics ${ }^{1}$ |  |
| ST | 205 Science and Society Speaker Series | 3 | PH |  | Analog Electronics (WAC) | 4 |
|  | This is a one credit course offered each term |  | ME | 295 | Mechanics and Heat | 3 |
|  | that must be completed three times before |  | ECE | 202 | Circuit Analysis II | 3 |
|  | graduation. |  | ECE | 208 | Electronic Devices \& Design Lab | 1 |
|  | t 2 from the following 3 courses: | 6 | ECE | 210 | Sophomore Seminar | 1 |
|  | 310 Social Studies of Science and Technology |  | ECE | 255 | Intro to Electronics Analysis \& Design | 3 |
|  | 320 Philosophy of Science |  | ECE | 264 | Advanced C Programming | 2 |
|  | 330 Language, Rhetoric and Science |  | ECE | 270 | Digital Logic Design | 4 |
|  | lectives (*credits used toward 18 cr req) | 18 | ECE | 301 | Signals and Systems | 3 |
|  | Elective courses are from various departments. |  | ECE | 302 | Probabilistic Methods | 3 |
|  | Of these credits, 12 must be at the 300 level or |  | ECE | 311 | Electric and Magnetic Fields | 3 |
|  | above. A total of three hours of independent |  | ECE | 362 | Microprocessers Systems \& Interface | 4 |
|  | study or internship credit can be used. Only one |  | ECE | 382 | Feedback Systems Analysis | 3 |
|  | research methods course is allowed. |  | ECE |  | Engineering Ethics | 1 |
|  |  |  | ECE | 440 | Intro to Communication System Analysis | 4 |
|  | ech Elect (**credits used toward 15 cr req) | - | ECE |  | Senior Design I | 1 |
|  | Credits | 30 |  |  | Senior Design II | 2 |
|  |  |  | EE Ele | ctives |  | 15 |
|  |  |  |  |  | Credits | 63 |

## Common Engineering

Mathematics Credits

MA 106 Calculus \& Analytical Geometry 14
MA 107 Calculus \& Analytical Geometry 24
MA 208 Calculus \& Analytical Geometry 3 4
MA 215 Linear Algebra 3
MA 334 Differential Equations 3

## Science

Credits
CH 105 General Chemistry 1** 5
CH 106 General Chemistry 2** 5
PH 201 Introduction to Analytical Physics 1** 5
PH 202 Introduction to Analytical Physics 2** 5

| Engineering |  | Credits |
| :--- | :---: | :---: |
| DD | 190 | Elementary Engineering Design |
| DD | 297 | MATLAB |
| CS | 142 | Intro to Comptuer Science \& Prog |

Other
Credits
COM 101 Rhetoric and the American Demo 3
TCM 250 Career Planning for Engineers 1
TCM 360 Comm in Engineering Practice (WAC/SAC) 2
ENGR 200 Engineering Internship 1
Credits 52

170-178 Total Credits
${ }^{1}$ SW 220-EC used as equivalents for degree reqirements

