

| FRESHMAN YEAR                                                                |                                                                                               |     |    |    |    |                 |                                                                                                       |     |    |    |    |  |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----|----|----|----|-----------------|-------------------------------------------------------------------------------------------------------|-----|----|----|----|--|
| First Semester                                                               |                                                                                               | Sem |    |    |    | Second Semester |                                                                                                       | Sem |    |    |    |  |
|                                                                              |                                                                                               | Hr  | Gr | Yr | Tr |                 |                                                                                                       | Hr  | Gr | Yr | Tr |  |
| MATH 2413                                                                    | Cal. I(Pre-Req: Math 1316 or Math 1511)<br>- Univ. Math Core (3 hours)                        | 4   |    |    |    | ENGL 1301       | Freshman Composition I<br>- Univ. Comm. Core                                                          | 3   |    |    |    |  |
| COMM 1311                                                                    | Fundamentals of Speech Comm.<br>- Compo. Area TWO. Must be taken                              | 3   |    |    |    | MATH 2414       | Calculus with Analytic Geometry II<br>(Pre-Req: Math 2413)                                            | 4   |    |    |    |  |
| CHEM 1303                                                                    | Science Course-Univ Life & Phy Sci core                                                       | 3   |    |    |    |                 | #Global Awareness- Select one NOT<br>completed for Univ. Soc. & Beh. Sci. Core                        | 3   |    |    |    |  |
| CHEM 1111                                                                    | Science Course Lab                                                                            | 1   |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| COMP 1101                                                                    | Intro to Engr. & CS Tech.<br>Co-Req:COMP 1101-P81                                             | 1   |    |    |    | COMP 1337       | Computer Science II (Pre-Req: COMP<br>1336 & 1121. Pre/Co-Req: MATH 2413 and<br>COMP 1122)            | 3   |    |    |    |  |
| COMP 1336                                                                    | Computer Science I – Pre/Co-Req:<br>(MATH 1316 or MATH 1511). Co-<br>Req:COMP 1121.           | 3   |    |    |    | COMP 1122       | Computer Science Laboratory II Pre-<br>Req: COMP 1336 & 1121. Pre/Co-Req: MATH<br>2413 and COMP 1337) | 1   |    |    |    |  |
| COMP 1121                                                                    | Computer Science Laboratory I -<br>Pre/Co-Req: (MATH 1316 or MATH<br>1511). Co-Req: COMP 1336 | 1   |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| Total                                                                        |                                                                                               | 16  |    |    |    | Total           |                                                                                                       | 14  |    |    |    |  |
| SOPHOMORE YEAR                                                               |                                                                                               |     |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| First Semester                                                               |                                                                                               | Sem |    |    |    | Second Semester |                                                                                                       | Sem |    |    |    |  |
|                                                                              |                                                                                               | Hr  | Gr | Yr | Tr |                 |                                                                                                       | Hr  | Gr | Yr | Tr |  |
| COMP 2336                                                                    | Data Structures<br>Pre-Req: COMP 1337 and COMP 1122                                           | 3   |    |    |    | HIST 1301       | U.S. TO 1876 - Univ. Hist core                                                                        | 3   |    |    |    |  |
| COMP 2310                                                                    | Discrete Structures<br>Pre-Req: COMP 1377 and COMP 1122                                       | 3   |    |    |    | COMP 2319       | Computer Organization<br>Pre-Req: COMP 1337 and COMP 1122                                             | 3   |    |    |    |  |
| ENGL 2311                                                                    | Technical Writing(Pre-Req: ENGL 1301)<br>- Univ. Comm. Core                                   | 3   |    |    |    | COMP            | CS Elective (Lower or Upper)                                                                          | 3   |    |    |    |  |
|                                                                              | #Social and Behavioral Sciences<br>- Univ. Soc. & Beh. Sci. Core                              | 3   |    |    |    | MATH 3307       | Linear Algebra<br>Pre-Req: MATH 2414                                                                  | 3   |    |    |    |  |
| PHYS 2325                                                                    | Science Course-Uni. Life & Phy. Sci core                                                      | 3   |    |    |    |                 | #Science Course<br>Uni. Life & Phy. Sci core                                                          | 3   |    |    |    |  |
| PHYS 2125                                                                    | Science Course Lab*                                                                           | 1   |    |    |    |                 | #Science Course Lab*                                                                                  | 1   |    |    |    |  |
| Total                                                                        |                                                                                               | 16  |    |    |    | Total           |                                                                                                       | 16  |    |    |    |  |
| JUNIOR YEAR                                                                  |                                                                                               |     |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| First Semester                                                               |                                                                                               | Sem |    |    |    | Second Semester |                                                                                                       | Sem |    |    |    |  |
|                                                                              |                                                                                               | Hr  | Gr | Yr | Tr |                 |                                                                                                       | Hr  | Gr | Yr | Tr |  |
| POSC 2305                                                                    | American Government I -Univ. Gov core                                                         | 3   |    |    |    | HIST 1302       | The U.S. 1876 to Present<br>-Univ. Hist core                                                          | 3   |    |    |    |  |
| MATH 3302                                                                    | Probability and Statistics<br>Pre-Req: MATH 2414                                              | 3   |    |    |    | COMP 3305       | Analysis of Algorithms<br>Pre-Req: COMP 2336 & COMP 2310                                              | 3   |    |    |    |  |
| COMP 3306                                                                    | Operating Systems Pre-Req: COMP<br>2336 & COMP 2319                                           | 3   |    |    |    | COMP 3322       | Software Engineering<br>Pre-Req: COMP 2336                                                            | 3   |    |    |    |  |
| COMP 3395                                                                    | Database Management<br>Pre-Req: COMP 2336                                                     | 3   |    |    |    | COMP 4315       | Data Mining and Analytics<br>Pre-req – MATH 3302                                                      | 3   |    |    |    |  |
| COMP 3311                                                                    | Intro to Data Science<br>Pre-Req: COMP 1337 and COMP 1122                                     | 3   |    |    |    |                 | #Creative Arts<br>- Univ. Core <see reverse side>                                                     | 3   |    |    |    |  |
|                                                                              |                                                                                               |     |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| Total                                                                        |                                                                                               | 15  |    |    |    | Total           |                                                                                                       | 15  |    |    |    |  |
| SENIOR YEAR                                                                  |                                                                                               |     |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| First Semester                                                               |                                                                                               | Sem |    |    |    | Second Semester |                                                                                                       | Sem |    |    |    |  |
|                                                                              |                                                                                               | Hr  | Gr | Yr | Tr |                 |                                                                                                       | Hr  | Gr | Yr | Tr |  |
| COMP 4100                                                                    | Ethics and Soc. Issues in Computing<br>Pre-Req: Senior Standing. Co-Req: COMP 4207            | 1   |    |    |    | COMP 4208       | Senior Design Project II<br>Pre-Req: COMP 4207                                                        | 2   |    |    |    |  |
| COMP 4207                                                                    | Senior Design Project I (Pre-Req:<br>COMP 3305, 3306, 3322, 3395 Co-Req:<br>COMP 4100)        | 2   |    |    |    | COMP 4311       | Programming Languages<br>Pre-Req: COMP 2336                                                           | 3   |    |    |    |  |
| COMP 4312                                                                    | Computer Networks<br>Pre-Req: COMP 3306                                                       | 3   |    |    |    | COMP 4323       | Network Security<br>Pre-Req: COMP 4312                                                                | 3   |    |    |    |  |
| COMP 4306                                                                    | Artificial Intelligence<br>Pre-Req: COMP 2336 & MATH 3302                                     | 3   |    |    |    | COMP 4318       | Information Retrieval<br>Pre-Req:COMP 2336 & MATH 3302                                                | 3   |    |    |    |  |
| COMP 4316                                                                    | Machine Learning<br>Pre-Req:COMP 2336 & MATH 3302                                             | 3   |    |    |    |                 | #Lang, Phil, and Culture<br>-Univ. Core <see reverse side>                                            | 3   |    |    |    |  |
| POSC 2306                                                                    | American Gov. II -Univ. Gov core                                                              | 3   |    |    |    |                 |                                                                                                       |     |    |    |    |  |
| Total                                                                        |                                                                                               | 15  |    |    |    | Total           |                                                                                                       | 14  |    |    |    |  |
| # Please refer Degree Works before registering the student in this category. |                                                                                               |     |    |    |    |                 |                                                                                                       |     |    |    |    |  |

## UNIVERSITY CORE, CS ELECTIVES, AND CS MINOR (2025 CATALOG)

• **CREATIVE ARTS ARTS – CHECK DEGREE WORKS BEFORE REGISTERING STUDENT IN THIS CATEGORY.**

|           |                   |           |                             |           |                            |
|-----------|-------------------|-----------|-----------------------------|-----------|----------------------------|
| ARCH 1303 | Arch Design I     | DRAM 1310 | Intro To Theater            | MUSC 1306 | Music in Contemporary Life |
| ARTS 1301 | Art Appreciation  | DRAM 2322 | African American Theater II | MUSC 2333 | Afro-American Music        |
| ARTS 2328 | Afro-American Art | HCOL 1321 | Honors Colloquium II        | MUSC 2334 | Survey of World Music      |
| COMM 2300 | Media Literacy    | MUSC 1303 | Fund Of Music               |           |                            |

• **LANGUAGE, PHILOSOPHY AND CULTURE–CHECK DEGREE WORKS BEFORE REGISTERING STUDENT IN THIS CATEGORY.**

|           |                          |           |                          |           |                         |
|-----------|--------------------------|-----------|--------------------------|-----------|-------------------------|
| ARCH 1301 | Architectural History I  | ENGL 2334 | Studies In Lit           | PHIL 2306 | Ethics                  |
| ARCH 1302 | Architectural History II | ENGL 2341 | Intro. To Literature     | SPAN 2311 | Intermediate Spanish I  |
| ARTS 1303 | Art History I            | HUMA 1301 | Intro to Humanities      | SPAN 2312 | Intermediate Spanish II |
| ARTS 1304 | Art History II           | HUMA 1305 | Mexican American Culture |           |                         |
| ENGL 2331 | Survey of World Lit      | PHIL 2303 | Critical Thinking        |           |                         |

• **SOCIAL&BEHAVIORAL SCIENCES OPTIONS–CHECK DEGREE WORKS BEFORE REGISTERING STUDENT IN THIS CATEGORY.**

|           |                                |           |                              |           |                           |
|-----------|--------------------------------|-----------|------------------------------|-----------|---------------------------|
| AFAM 1301 | Race class & Gender in America | FINA 2313 | Financial Plan. Global Pers. | POSC 2321 | Blacks / Pol. Sys.        |
| AGHR 1330 | Land Grant Sys & Food Sec      | GEOG 1302 | Intro To Geography           | POSC 2350 | Global Issues             |
| CHEG 2308 | Eco Anal Technical Appl.       | HDFM 2351 | Childhood Disorders          | PSYC 2301 | General Psychology        |
| CRJS 1301 | Intro. To Criminal Just.       | HDFM 2353 | Contem. Family               | PSYC 2308 | Child Psychology          |
| CRJS 1307 | Crime in America               | HDFM 2355 | Life Span Development        | PSYC 2316 | Psychology of Personality |
| ECON 1301 | Fund. Of Econ in a Global      | HIST 2321 | World Civil. I               | SOCG 1301 | General Sociology         |
| ECON 2301 | Principle Of Macroecon.        | HIST 2322 | World Civil. II              | SOCG 1306 | Social Problems           |
| ECON 2302 | Principle Of Microecon.        | MGMT 2326 | Leadership in a Global Envi. | SOCG 2319 | Sociology Of Minorities   |

• **GLOBAL AWARENESS–CHECK DEGREE WORKS BEFORE REGISTERING STUDENT IN THIS CATEGORY.**

Select one course from this list not completed for the Social & Behavioral Sciences area above

|           |                                         |           |                              |
|-----------|-----------------------------------------|-----------|------------------------------|
| AGHR 1330 | Land Grant Sys & Food Sec               | HIST 2321 | World Civil. I               |
| CHEG 2316 | Ethical Engineering in a Global Society | HIST 2322 | World Civil. II              |
| CURR 2300 | Global Influence on Teach Education     | MGMT 2326 | Leadership in a Global Envi. |
| CVEG 2304 | Global Development Issues               | POSC 2350 | Global Issues                |
| ECON 1301 | Fund. Of Econ in a Global               | SOCG 1306 | Social Problems              |
| FINA 2313 | Financial Plan. Global Pers.            |           |                              |

• **COMPUTER SCIENCE ELECTIVES (2000 – LOWER 3000 & 4000 - UPPER)**

| Course #  | Course Desc.                | Prerequisite                   | Course #       | Course Desc.                  | Prerequisite        |
|-----------|-----------------------------|--------------------------------|----------------|-------------------------------|---------------------|
| COMP 2300 | Intro. to Web Design & MM   | Consent Of Advisor             | COMP 3343      | Internet of Things            | COMP 2336           |
| COMP 2302 | Appl. Development using C#  | COMP 1315, or 1336 or HS Prog. | COMP 4307(1-3) | Special Topics                | Consent of Inst.    |
| COMP 2313 | Intro. Information Security | COMP 1337 and COMP 1122        | COMP 4314      | Parallel Computing            | COMP 2336&COMP 2310 |
| COMP 2314 | Introduction to Java        | Consent Of Advisor.            | COMP 4331      | Computer Forensics            | COMP 3306           |
| COMP 2315 | Python Programming Lang.    | COMP 1337 and COMP 1122        | COMP 4332      | Mobile Security               | COMP 3306           |
| COMP 3301 | Embedded System             | COMP 1337 and COMP 1122        | COMP 4333      | Ethical Hacking & Pen Testing | COMP 3306&COMP 4312 |
| COMP 3321 | Graphics & Visual Computing | COMP 2336                      | COMP 4384      | Human-Comp. Inter.            | COMP 3322           |
| COMP 3331 | Information Privacy         | COMP 2336                      | COMP 4399      | Independent Study             |                     |
| COMP 3332 | Cryptography                | COMP 2310                      |                |                               |                     |
| COMP 3333 | Smart Device App. Dev.      | COMP 2336                      |                |                               |                     |

• **ELIGIBILITY TO TAKE UPPER DIVISION COLLEGE COURSES**

The College of Engineering requires an eligibility standard for the students to take upper division college courses. Students in Computer Science Program must get a C or better in each of the Math, Science, English, and Computer Science courses to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

• **REQUIREMENTS FOR COMPUTER SCIENCE AS A MINOR FIELD.....31 SCH**

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| COMP 1336, 1121, 1337, 1122, 2336, 2310 and 9 semester hours of upper-division courses.....23 SCH |
| MATH 2413, 2414.....8 SCH                                                                         |