

CURRICULUM MAP – Area of Concentration SPACE SCIENCE - 2011

FIRST YEAR COURSE SCHEDULE

| ✓ | Fall Semester | Code | Credits | | ✓ | Spring Semester | Code | Credits |
|---------------------------|--|------|-----------|--|---------------------------|---|------|-----------|
| | SSE 120 Satellites & Space Systems I | R | 3 | | | SSE 122 Satellites/Space Systems II | R | 3 |
| | ENG 100 - CORE - Writing I | G | 3 | | | ENG 200 - CORE - Writing II | G | 3 |
| | FYS 101 - CORE - First Year Seminar | G | 3 | | | MATH 175 - CORE - Calculus I | G | 4 |
| | ITEC 141 Direct Current Circuits | R | 3 | | | ITEC 241 Alternating Current Circuits | R | 3 |
| | ITEC 141L Direct Current Circuits Lab. | R | 0 | | | ITEC 241L Alternating Current Circuits Lab. | R | 0 |
| | General Elective | E* | 3 | | | COMM 108 - CORE - Oral Communication | G | 3 |
| Total Credit Hours | | | 15 | | Total Credit Hours | | | 16 |

SECOND YEAR COURSE SCHEDULE

| ✓ | Fall Semester | Code | Credits | | ✓ | Spring Semester | Code | Credits |
|---------------------------|---|------|-----------|--|---------------------------|---|------|-----------|
| | MATH 275 Calculus II | R | 4 | | | MATH 276 - Calculus III | R | 4 |
| | PHYS 231 Engineering Physics I | R | 4 | | | PHYS 232 - Engineering Physics II | R | 4 |
| | PHYS 231A Engineering Physics I Lab. | R | 1 | | | PHYS 232A - Engineering Physics II Lab. | R | 1 |
| | ITEC 242 Principles of Communications | R | 3 | | | PHYS 270 Intro to Sci. Computing | R | 3 |
| | ITEC 242L Principles of Communications Lab. | R | 0 | | | HUM 1 - Humanities | G | 3 |
| | ASTR 125 Astronomical and Physical Methods to Explore the Universe (Exchange for NSC 2) | G | 3 | | | | | |
| Total Credit Hours | | | 15 | | Total Credit Hours | | | 15 |

THIRD YEAR COURSE SCHEDULE

| ✓ | Fall Semester | Code | Credits | | ✓ | Spring Semester | Code | Credits |
|---------------------------|--|------|-----------|--|---------------------------|--|------|-----------|
| | ITEC 344 Wireless Communications | RU | 3 | | | SSE 380 Materials Science for Space Applications | RU | 3 |
| | ITEC 344L Wireless Communications Lab | RU | 0 | | | SSE 360 Advanced Space Systems | RU | 3 |
| | PHYS 361/361L Fundamentals of Electronics | RU | 3 | | | SSE 341 Solid State Devices & Appl. | RU | 3 |
| | SSE 340 Digital Control Systems for Space Applications | RU | 3 | | | SBS 1 – Social/Behavioral | G | 3 |
| | HUM 2 - Humanities | G | 3 | | | NSC 1 – Natural Science | G | 3 |
| | PHYS 381 Computer solutions to eng. & sci. problems | RU | 3 | | | | | |
| Total Credit Hours | | | 15 | | Total Credit Hours | | | 15 |

FOURTH YEAR COURSE SCHEDULE

| ✓ | Fall Semester | Code | Credits | | ✓ | Spring Semester | Code | Credits |
|---------------------------|---|------|-----------|--|---------------------------|---|------|-----------|
| | ITEC 400 Digital Signal Processing and 400L (Lab) | U | 3 | | | ITEC 444 Satellite Telecommunications | U | 3 |
| | SBS 2 –Social/Behavioral | G | 3 | | | ITEC 444L Satellite Telecommunications Lab. | U | 0 |
| | SSE 442 RF/Microwave Systems and Antennas | U | 3 | | | SSE 499C Senior Capstone | U,G | 3 |
| | SSE 498 Senior Design Project I | U | 2 | | | SSE 324 Radio Astronomy | U | 3 |
| | Technical Elective | U | 3 | | | SSE 431 Space Plasma Physics | U | 3 |
| | | | | | | Technical Elective | U | 3 |
| Total Credit Hours | | | 14 | | Total Credit Hours | | | 15 |