

Advising Sheet (CS)

AA - Pathway to a Major in Computer Science [10703]

The recommendations below are based on **FIU's requirements for Computer Science**. All categories are required by MDC for AA degrees. The courses listed are either recommended by Technology Dept. faculty or required by FIU.

| 1. Communications | Credits | Notes |
|-------------------|---------|-----------------|
| ENC1101 | 3 | Required by MDC |
| ENC1102 | 3 | Required by MDC |

| 2. Oral Communications | Credits | Notes |
|------------------------|---------|---|
| SPC1017 | 3 | Other courses are available. This one is recommended. |

| 3. Humanities | Credits | Notes |
|---------------|---------|--|
| PHI2010 | 3 | [State Core] Other courses are available. This one is recommended. |
| PHI2604 | 3 | [MDC Core] Other courses are available. This one is recommended. |

| 4. Behav/Soc Science | Credits | Notes |
|----------------------|---------|--|
| ECO2013 | 3 | [State Core] Other courses are available. This one is recommended. |
| CLP1006 | 3 | [MDC Core] Other courses are available. This one is recommended. |

| 5. Natural Science | Credits | Notes |
|--------------------|---------|--|
| BSC2010 | 3 | [State Core] Required by FIU for CS students |
| CHM1045 | 3 | [MDC Core] Required by FIU for CS students |

| 6. Math | Credits | Notes |
|---------|---------|-------------------------------------|
| MAC1147 | 5* | Prerequisite for Calculus (MAC2311) |
| MAC2311 | 5* | Required by FIU for CS students |

| 7. General Elective (3 cred) | Credits | Notes |
|------------------------------|---------|--|
| CGS1060C | 4* | Satisfies Computer Competency requirement at MDC |

| Electives (24 credits) | Credits | Notes |
|-----------------------------------|---------|--|
| <i>*Carryover credits (above)</i> | 5 | 2 from MAC1147; 2 from MAC2311; 1 from CGS1060 |
| MAC2312 | 4 | Required by FIU for CS students |
| PHY2048 | 4 | Required by FIU for CS students |
| PHY2049 | 4 | Required by FIU for CS students |
| PHY2048L | 1 | Lab for physics course. Required by FIU for CS students |
| PHY2049L | 1 | Lab for physics course. Required by FIU for CS students |
| COP1334 (C++) | 4 | Required by MDC before taking Java |
| COP2800 (Java) | 4 | Required by FIU for CS students |
| Foreign Language | 8 | Two courses are required prior to graduation unless two years were completed in high school. |

Sample Schedule

First Term

| Course ID | Course Name | Credits | Notes |
|-----------|-----------------------------|---------|--|
| ENC1101 | English Composition 1 | 3 | |
| CGS1060C | Intro to Microcomputers | 4 | Required for all other computer courses |
| MAC1147 | Pre-Calculus & Trigonometry | 5 | Required for Calculus courses. Prerequisite: MAC1105 or Math dept. permission |
| CHM1045 | General Chemistry | 3 | May require prerequisites and co-requisites. Contact Chemistry dept. |

Second Term

| Course ID | Course Name | Credits | Notes |
|-----------|----------------------------|---------|-----------------------------|
| ENC1102 | English Composition 2 | 3 | |
| COP1334 | Intro to Programming (C++) | 4 | Required for COP2800 (Java) |
| MAC2311 | Calculus 1 | 5 | Prerequisite: MAC1147 |
| BSC2010 | Principles of Biology | 3 | Prerequisite: CHM1045 |

Third Term (Summer)

| Course ID | Course Name | Credits | Notes |
|-----------|-------------|---------|-----------------------|
| MAC2312 | Calculus 2 | 4 | Prerequisite: MAC2311 |

Fourth Term

| Course ID | Course Name | Credits | Notes |
|-----------|-------------------------------|---------|-----------------------|
| PHI2604 | Critical Thinking and Ethics | 3 | |
| SPC1017 | Fundamentals of Speech | 3 | |
| PHY2048 | Physics with Calculus 1 | 4 | Prerequisite: MAC2311 |
| PHY2048L | Physics with Calculus 1 (Lab) | 1 | |
| COP2800 | Java Programming | 4 | Prerequisite: COP1334 |

Fifth Term

| Course ID | Course Name | Credits | Notes |
|-----------|-------------------------------|---------|-----------------------|
| CLP1006 | Psychology of Personal Eff. | 3 | |
| PHI2010 | Intro to Philosophy | 3 | |
| ECO2013 | Economics (Macro) | 3 | |
| PHY2049 | Physics with Calculus 2 | 4 | Prerequisite: PHY2048 |
| PHY2049L | Physics with Calculus 2 (Lab) | 1 | |