



| Degree Requirements | Details |
|---------------------------|--|
| Total Credit Hours | 120/121 credit hours |
| Grade Point Average (GPA) | 2.0 GPA |
| Residency Rule | Complete a minimum of 25% of the total credit hours requirement of the degree program at MVSU. |
| "D" Policy | Students are allowed one (1) "D" in major courses. |
| Academic Advisor | |
| Student Name | |
| Studnet ID# | |

| General Core Curriculum | Course Number | Credit Hours | Semester Offered | General Core Curriculum | Course Number | Credit Hours | Semester Offered |
|--|---------------------------|--------------|------------------|--|---------------------------|--------------|---------------------|
| English Composition | EN 101 EN 102 | 6 | FA & SP | Social and Behavioral Sciences: Economics, Geography, Political Science, Psychology, Public Administration and Sociology | | 6 | FA & SP |
| Humanities: History and English Literature <i>Students must take (6hrs EN Lit & 3hrs HI or 6hrs HI & 3hrs EN Lit)</i> | | 9 | | Speech | SP 201 | 3 | FA & SP |
| Fine Arts | AR 101, MU 107, or TH 201 | 3 | FA & SP | Health and Physical Education or ROTC | HL 101, PE 102, or MS 101 | 2/3 | FA & SP FA SP |
| Orientation | FY 101 | 1 | FA & SP | College Algebra or Higher Level Mathematics | | 3 | FA & SP |
| Natural Sciences | | 6/8 | FA & SP | | | | |

Subtotal 39/42

| Semester 1 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|--|--------------------|--------------|------------------|----------------|--------------|--------------|---|
| English Composition - Freshman Composition | EN 101 | 3 | FA & SP | | | | EN 100B or English Subtest Score of 17 |
| Fine Arts | See Above | 3 | FA & SP | | | | |
| Humanities I | See Above | 3 | | | | | |
| College Algebra or Higher Level Mathematics - Calculus I | MA 299 | 3 | FA & SP | | | | MA 111, MA 150, or Math Subtest Score of 22 |
| Survey of Computer Science | CS 112 | 3 | FA & SP | | | | Must be a CS, MA or MA Education Major |
| Orientation | CS 191 | 1 | FA | | | FY 101 | |
| | Total Hours | 16 | | | | | |

| Semester 2 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|--|--------------------|--------------|------------------|----------------|--------------|--------------|--------------------|
| English Composition - Freshman Composition | EN 102 | 3 | FA & SP | | | | EN 101 |
| Health and Physical Education or ROTC | See Above | 2/3 | FA & SP | | | | |
| Social & Behavioral Sciences I | See Above | 3 | FA & SP | | | | |
| Calculus II | MA 300 | 3 | FA & SP | | | | MA 299 |
| Computer Programming I | CS 203 | 3 | FA & SP | | | | CS 112 |
| Computer Seminar | CS 192 | 1 | SP | | | | Must be a CS Major |
| | Total Hours | 15/16 | | | | | |

| Semester 3 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|--------------------------------------|--------------------|--------------|------------------|----------------|--------------|--------------|-------------------|
| Computer Programming II | CS 204 | 3 | FA & SP | | | | CS 203 |
| Natural Sciences I-Physics I | PH 211 | 4 | FA | | | | MA 111 and MA 112 |
| Natural Sciences I Lab-Physics I Lab | PH 211L | 0 | FA | | | | PH 211 |
| Discrete Structures | CS 341 | 3 | FA | | | | MA 300 |
| Humanities II | See Above | 3 | FA & SP | | | | |
| Financial Accounting | AC 221 | 3 | FA | | | | |
| | Total Hours | 16 | | | | | |

| Semester 4 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|--|---------------------|--------------|---|----------------|--------------|--------------|--------------------|
| Humanities III | See Above | 3 | FA & SP | | | | |
| Natural Sciences II-Physics II | PH 212 | 4 | SP | | | | PH 211 and PH 211L |
| Natural Sciences II Lab-Physics II Lab | PH 212L | 0 | SP | | | | PH 211 |
| Data Structures | CS 205 | 3 | SP | | | | CS 204 |
| Java or Visual Basic Programming | CS 221** or CS 231* | 3 | SP | | | | CS 203 |
| Probability & Statistics | MA 325 | 3 | SP | | | | |
| Total Hours | | 16 | * Offered Every Odd Year **Offered Every Even Year | | | | |

| Semester 5 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|---|---------------|--------------|-----------------------------------|----------------|--------------|--------------------|---|
| Database Management Systems | CS 351 | 3 | FA | | | | CS 204 |
| Social & Behavioral Sciences II | See Above | 3 | | | | | |
| Computer Architecture | CS 321 | 3 | FA | | | | CS 204 |
| Introduction to Algorithms | CS 323 | 3 | FA | | | | CS 205 |
| General Biology I (Zoology) | BI 111 | 3 | FA FA | | | BI 112 CH 111 | BI 111L |
| General Biology I (Zoology) Lab | BI 111L | 1 | FA FA | | | BI 112L CH 111L | BI 111 |
| Social & Ethical Issues in Computer Science | CS 398*** | 1 | FA | | | | Must be a SO or JR and a Computer Science Major |
| Total Hours | | 17 | *** Offered Every Odd Year | | | | |

| Semester 6 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|---|---------------|--------------|------------------|----------------|--------------|--------------|-------------------|
| Principles of Programming Languages | CS 350 | 3 | SP | | | | CS 205 |
| Operating Systems | CS 371 | 3 | SP | | | | CS 205 and CS 321 |
| Linear Algebra | MA 331 | 3 | SP | | | | MA 300 |
| Ordinary & Partial Differential Equations | MA 421 | 3 | SP | | | | MA 300 |
| Software Engineering | CS 425 | 3 | SP | | | | CS 351 |
| Total Hours | | 15 | | | | | |

| Semester 7 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|--|---------------|--------------|------------------|----------------|--------------|--------------|---|
| Introduction to Networking | CS 422 | 3 | FA | | | | CS 371 |
| Introduction to Cyber Security | CS 423 | 3 | FA | | | | CS 371 |
| Senior Project | CS 455 | 3 | FA | | | | Must be a Senior and a Computer Science Major |
| Speech - Fundamentals of Public Speaking | SP 201 | 3 | FA | | | | |
| Total Hours | | 12 | | | | | |

| Semester 8 | Course Number | Credit Hours | Semester Offered | Semester Taken | Grade Earned | Also Allowed | Pre/Co-requisites |
|---------------------------|---------------|--------------|------------------|----------------|--------------|--------------|---|
| Computer Science Elective | See Below | 3 | SP | | | | Computer Science electives must be 300 or above |
| Network Defense | CS 453 | 3 | SP | | | | CS 422 & CS 423 |
| Language & Compilers | CS 441 | 3 | SP | | | | CS 350 |
| Math Elective | See Below | 3 | SP | | | | Math electives must be 300 or above |
| Computer Seminar | CS 492 | 1 | SP | | | CS 491 | Must be a Senior and a Computer Science Major |
| Total Hours | | 13 | | | | | |

Fall Mathematics (MA) Electives: MA 301, MA 302, MA 311, MA 317, MA 333, MA 401
Spring Mathematics (MA) Electives: MA 302, MA 303, MA 318, MA 325, MA 402
Spring Computer Science (CS) Electives: CS 221*, CS 231**, CS 431

| Substitutions | | | | | | | |
|------------------------|--|---------------------------|--|-------|--|----------|--|
| Required Course Number | | Substituted Course Number | | Grade | | Semester | |
| Required Course Number | | Substituted Course Number | | Grade | | Semester | |
| Required Course Number | | Substituted Course Number | | Grade | | Semester | |

| Other Courses | | | | | | | | |
|---------------|----------|-------|---------------|----------|-------|---------------|----------|-------|
| Course Number | Semester | Grade | Course Number | Semester | Grade | Course Number | Semester | Grade |
| | | | | | | | | |
| | | | | | | | | |