

Gateway S.M.A.R.T. Plan

Certificates: Computer Information Technologies

A+ Prep: 4 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 111 Computer Hardware and Software (pre-req CIT 105) | 4 | | Fall/Spring |

Application Support Technician: 14 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 105 Introduction to Computers | 3 | | Fall/Spring |
| CIT 111 Computer Hardware and Software (pre-req CIT 105) | 4 | | Fall/Spring |
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |
| CIT 180 Security Fundamentals (pre-req CIT 160) | 3 | | Fall/Spring |

AWS Cloud Architecture: 19 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 167 Switching and Routing Essentials (pre-req CIT 161) | 4 | | Fall |
| CIT 201 Information Storage Management (pre-req CIT 167 and (CIT 214 or CIT 261 or CIT 217)) | 3 | | Fall |
| CIT 206 Amazon Web Services Practitioner (pre-req CIT 160 and CIT 170) | 3 | | Fall |
| CIT 207 Amazon Web Services Architecting (pre-req CIT 167 and CIT 206) | 3 | | Spring |
| CIT 217 UNIX/Linux Administration (pre-req CIT 111 and CIT 160) | 3 | | Fall/Spring |
| CIT 264 Microsoft Server Infrastructure (pre-req CIT 262) | 3 | | Spring |

CIT Fundamentals: 23 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 105 Introduction to Computers | 3 | | All |
| CIT 111 Computer Hardware and Software (pre-req CIT 105) | 4 | | Fall/Spring |
| CIT 120 Computational Thinking | 3 | | Fall/Spring |
| CIT 149 Java I (or CIT 144 Python I) | 3 | | Fall/Spring |
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |
| CIT 170 Database Design Fundamentals | 3 | | Fall/Spring |
| CIT 180 Security Fundamentals (pre-req CIT 160) | 3 | | Fall/Spring |

Computer Tech Basic: 11 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 105 Introduction to Computers | 3 | | Fall/Spring |
| CIT 111 Computer Hardware and Software (pre-req CIT 105) | 4 | | Fall/Spring |
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |

Computer Technician: 14 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 105 Introduction to Computers | 3 | | Fall/Spring |
| CIT 111 Computer Hardware and Software (pre-req CIT 105) | 4 | | Fall/Spring |
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |



| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 180 Security Fundamentals (pre-req CIT 160) | 3 | | Fall/Spring |

Informatics Programming: 12 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 120 Computational Thinking (pre-req MAT 85 or higher level quantitative reasoning course) | 3 | | Fall/Spring |
| CIT 149 Java I (pre-req CIT 120) | 3 | | Fall/Spring |
| CIT 170 Database Design Fundamentals (pre-req (CIT 105 and MAT 126) or higher level CIT course) | 3 | | Fall/Spring |
| CIT 249 Java II (pr-req CIT 149) | 3 | | Fall |

Information Security Specialist: 19 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |
| CIT 180 Security Fundamentals (pre-req CIT 160) | 3 | | Fall/Spring |
| CIT 182 Perimeter Defense (pre-req CIT 180) | 3 | | Fall/Spring |
| CIT 184 Attacks and Exploits (pre-req CIT 180) | 3 | | Fall/Spring |
| CIT 261 Microsoft Active Directory Services (pre-req CIT 111 and CIT 160) | 3 | | Fall |
| CIT 284 Computer Forensics (pre-req CIT 180) | 3 | | Spring |

Microsoft Enterprise Administrator: 22 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |
| CIT 182 Perimeter Defense (pre-req CIT 180) | 3 | | Fall/Spring |
| CIT 184 Attacks and Exploits (pre-req CIT 180) | 3 | | Fall/Spring |
| CIT 213 Microsoft Client Configuration (pre-req CIT 111 and CIT 160) | 3 | | Fall |
| CIT 261 Microsoft Active Directory Services (pre-req CIT 111 and CIT 160) | 3 | | Fall |
| CIT 262 Microsoft Server Infrastructure (pre-req CIT 111 and CIT 160) | 3 | | Spring |
| CIT 264 Microsoft Server Management (pre-req CIT 262) | 3 | | Spring |

Microsoft Network Administrator: 19 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 160 Intro to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |
| CIT 213 Microsoft Client Configuration (pre-req CIT 111 and CIT 160) | 3 | | Fall |
| CIT 217 UNIX/Linux Administration (pre-req CIT 111 and CIT 160) | 3 | | Fall/Spring |
| CIT 261 Microsoft Active Directory Services (pre-req CIT 111 and CIT 160) | 3 | | Fall |
| CIT 262 Microsoft Server Infrastructure (pre-req CIT 111 and CIT 160) | 3 | | Spring |
| CIT 264 Microsoft Server Management (pre-req CIT 262) | 3 | | Spring |

Mobile App Developer: 18 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 105 Introduction to Computers | 3 | | All |
| CIT 120 Computational Thinking (pre-req MAT 85 or higher level quantitative reasoning course) | 3 | | Fall/Spring |



| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 146 Swift (pre-req CIT 120) and | 3 | | Online |
| CIT 237 iOS Programming (pre-req CIT 146) | 3 | | Online |
| or CIT 149 Java I (pre-req CIT 120) and | 3 | | Fall/Spring |
| CIT 238 Android Programming I (pre-req CIT 149 or INF 120) | 3 | | Spring |

Net+: 4 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 160 Into to Networking Concepts (pre-req or co-req CIT 111) | 4 | | Fall/Spring |

Productivity Software Specialist: 12 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|---------|
| CIT 105 Introduction to Computers | 3 | | All |
| CIT 130 Productivity Software (pre-req CIT 105) | 3 | | Online |
| CIT 234 Advanced Productivity Software (pre-req CIT 130) | 3 | | Online |
| CIT 236 Advanced Data Organization Software (pre-req CIT 130) | 3 | | Online |

Programmer: 12 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 120 Computational Thinking (pre-req MAT 85 or higher level quantitative reasoning course) | 3 | | Fall/Spring |
| CIT 149 Java I (pre-req CIT 120) | 3 | | Fall/Spring |
| CIT 171 SQL I (pre-req CIT 120 and CIT 170) | 3 | | Fall/Spring |
| CIT 249 Java II (pre-req CIT 149) | 3 | | Fall |

Security+ Prep: 3 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 180 Security Fundamentals (pre-req CIT 160) | 3 | | Fall/Spring |

Social Media Specialist: 21 Total Credit Hours

| Courses | Cr | Grade | Offered |
|---|----|-------|---------|
| BAS 160 Introduction to Business | 3 | | All |
| BAS 282 Introduction to Marketing (pre-req BAS 160) | 3 | | All |
| CIT 105 Introduction to Computers | 3 | | All |
| CIT 151 Social Media I (pre-req CIT 105) | 3 | | Spring |
| CIT 152 Social Media Tools and Technologies (pre-req CIT 150) | 3 | | Fall |
| CIT 155 Web Page Development (pre-req CIT 105) | 3 | | Fall |
| CIT 251 Social Media II (pre-req CIT 151) | 3 | | Spring |

Web Programmer: 24 Total Credit Hours

| Courses | Cr | Grade | Offered |
|--|----|-------|-------------|
| CIT 120 Computational Thinking (pre-req MAT 85 or higher level quantitative reasoning course) | 3 | | Fall/Spring |
| CIT 149 Java I (pre-req CIT 120) | 3 | | Fall/Spring |
| CIT 150 Internet Technologies (pre-req CIT 105) | 3 | | Online |



| Courses | Cr | Grade | Offered |
|---|----|-------|-------------|
| CIT 155 Web Page Development (pre-req CIT 105) | 3 | | Fall |
| CIT 170 Database Design Fundamentals (pre req (CIT 105 and MAT 126) or higher level CIT course) | 3 | | Fall/Spring |
| CIT 171 SQL I (pre-req CIT 120 and CIT 170) | 3 | | Fall/Spring |
| CIT 249 Java II (pre-req CIT 149) | 3 | | Fall |
| CIT 253 Data Driven Web Pages: Topic (pre-req CIT 149 and CIT 155 and CIT 170) | 3 | | Spring |

Notes

- Consent of instructor can be used in place of the pre-req for a course.
- Progression in the program is contingent upon achievement of a grade C or greater in each CIT course and maintenance of a 2.0 cumulative GPA or above (on a 4.0 scale).
- At least 25 percent of the approved curriculum for any certificate, diploma or degree must be completed at the student's home college.

Updated 1/7/21

