

Cloud Infrastructure (A25590CI)

A.A.S. Degree (Part-Time)

PROGRAM PLANNING GUIDE

Updated: Fall 2024

| Curriculum By Semester | | | | | | |
|------------------------|-----|-------------------------------------|--|----------------|-----|---------|
| | | | | Hours Per Week | | |
| | | | | Class | Lab | Credits |
| FALL SEMESTER | | | | | | |
| Prerequisites | | | | | | |
| CTI | 110 | Web, Pgm, & Db Foundation | None | 2 | 2 | 3 |
| CTI | 120 | Network & Sec Foundation | None | 2 | 2 | 3 |
| NOS | 110 | Operating Systems Concepts | None | 2 | 2 | 3 |
| SPRING SEMESTER | | | | | | |
| | | Mathematics Elective | | 2 | 2 | 3 |
| NOS | 130 | Windows Single User | NOS-110 | 2 | 2 | 3 |
| NOS | 230 | Windows Administration I | NOS-130 | 2 | 2 | 3 |
| SUMMER SEMESTER | | | | | | |
| NOS | 120 | Linux/Unix Single User | NOS-110 or CTS-120 | 2 | 2 | 3 |
| ENG | 111 | Writing and Inquiry | Take One Set: Set 1: DRE-097; Set 2: ENG-002; Set 3: BSP-4002; Corequisites: ENG-011 | 3 | 0 | 3 |
| FALL SEMESTER | | | | | | |
| CTI | 140 | Virtualization Concepts | NOS-110 | 1 | 4 | 3 |
| NET | 125 | Introduction to Networks | CTI-120 or NET-110 | 1 | 4 | 3 |
| NET | 126 | Routing Basics | NET-125 | 1 | 4 | 3 |
| SPRING SEMESTER | | | | | | |
| | | English and Communications Elective | | 3 | 0 | 3 |
| CTI | 141 | Cloud and Storage Concepts | None | 1 | 4 | 3 |
| NOS | 220 | Linux/Unix Admin I | NOS-120 | 2 | 2 | 3 |
| SUMMER SEMESTER | | | | | | |
| CSC | 121 | Python Programming | CTI-110 | 1 | 4 | 3 |
| CTS | 115 | Info Sys Business Concepts | ENG-002 or ENG-111 | 3 | 0 | 3 |

| FALL SEMESTER | | | | | | |
|---------------|-----|---------------------------------------|---------|---|---|---|
| CTI | 240 | Virtualization Admin I | CTI-140 | 1 | 4 | 3 |
| | | Social and Behavior Sciences Elective | | - | - | 3 |

| SPRING SEMESTER | | | | | | |
|-----------------|-----|-----------------------------|---------|---|---|---|
| CTI | 241 | Virtualization Admin II | CTI-240 | 1 | 4 | 3 |
| CTS | 285 | Systems Analysis and Design | None | 3 | 0 | 3 |
| | | Project Elective | | - | - | 2 |

| SUMMER SEMESTER | | | | | | |
|-----------------|--|-----------------------------------|--|---|---|---|
| | | Humanities and Fine Arts Elective | | - | - | 3 |

GRADUATION REQUIREMENT:

Credit Hours 65

| General Education Electives |
|-----------------------------|
|-----------------------------|

| | | | | Hours Per Week | | |
|---|-----|------------------------|--|----------------|-----|---------|
| | | | | Class | Lab | Credits |
| Humanities and Fine Arts Electives | | | | | | |
| (Chose 3 credit hours from the following courses) | | | | | | |
| HUM | 110 | Technology and Society | | 3 | 0 | 3 |
| HUM | 115 | Critical Thinking | | 3 | 0 | 3 |
| PHI | 240 | Introduction to Ethics | | 3 | 0 | 3 |

| Social and Behavioral Sciences Electives | | | | | | |
|---|-----|------------------------------|--|---|---|---|
| (Chose 3 credit hours from the following courses) | | | | | | |
| ECO | 151 | Survey of Economics | | 3 | 0 | 3 |
| ECO | 251 | Principles of Microeconomics | | 3 | 0 | 3 |
| PSY | 118 | Interpersonal Psychology | | 3 | 0 | 3 |
| PSY | 150 | General Psychology | | 3 | 0 | 3 |
| SOC | 210 | Introduction to Sociology | | 3 | 0 | 3 |

| Mathematics Electives | | | | | | |
|---|-----|------------------------|--|---|---|---|
| (Chose 3 credit hours from the following courses) | | | | | | |
| MAT | 121 | Algebra/Trigonometry I | | 2 | 2 | 3 |

| | | | | | | |
|-----|-----|--|--|---|---|---|
| MAT | 143 | Quantitative Literacy | | 2 | 2 | 3 |
| MAT | 171 | Precalculus Algebra (Select for College T'fer) | | 3 | 2 | 4 |
| MAT | 271 | Calculus I (Select for College Transfer) | | 3 | 2 | 4 |

English and Communication Electives

(Chose 3 credit hours from the following courses)

| | | | | | | |
|-----|-----|---|--|---|---|---|
| ENG | 112 | Writing and Research in the Disciplines | | 3 | 0 | 3 |
| COM | 120 | Intro to Interpersonal Communications | | 3 | 0 | 3 |
| COM | 231 | Public Speaking | | 3 | 0 | 3 |

Required Major Electives

Project Elective

(Chose either WBL or CTI-260)

| | | | | | | |
|------|-----|--|---------------------|---|---|---|
| CTI | 260 | Data Center Troubleshooting | CTI-240 and NET-126 | 2 | 2 | 3 |
| WBL* | | Work Based Learning (Any ***MH Number) | | - | - | 2 |

*Work based learning is an elective. WBL courses completed for one program may not count toward the completion of another program. For verification, please contact your academic advisor or the WBL Coordinator. Students must have approval from the Program Director and pre-register with the Work-Based Learning Office. The work may be done over any number of semesters, a minimum of 2 WBL credits must be earned.