

INFORMATION TECHNOLOGY A.A.S – DATABASE PROGRAMMING OPTION

This degree gives students substantial knowledge of programming techniques required for database management. Students work with desktop database programs as well as client-server applications. Students will solve business computer problems through programming techniques and procedures, using appropriate languages and software.

The primary emphasis of the curriculum is hands-on training in programming, database design, database application, web development and related computer areas that provide the ability to adapt as information systems evolve. Graduates should qualify for employment in business, industry, and government organizations as entry-level programmers, programmer trainees, software developers, database developers, software specialists, or information managers. Students who successfully complete the following courses can be awarded this degree.

Students must adhere to prerequisite courses as described in the course descriptions in this catalog.

Program: Information Technology

Type: A.A.S.

FIRST SEMESTER

| Item # | Title | Credits |
|-----------|---------------------------------|---------|
| BCIS 1305 | Business Computer Applications | 3 |
| ITSE 1311 | Beginning Web Programming | 3 |
| ITSW 1307 | Introduction to Database | 3 |
| ITSE 1345 | Introduction to Oracle SQL | 3 |
| ITSY 1342 | Information Technology Security | 3 |

SECOND SEMESTER

* ITSE 2286 Internship: Students work 6 hours each week at an approved place of employment.

| Item # | Title | Credits |
|-----------|---|---------|
| ITSC 1316 | Linux Installation and Configuration | 3 |
| CPMT 1351 | IT Essentials: PC Hardware and Software | 3 |
| ITSW 2337 | Advanced Database | 3 |
| ITSE 2354 | Advanced Oracle PL/SQL | 3 |
| POFT 1120 | Job Search Skills | 1 |
| ITSE 2286 | Internship, Computer Programming/Programmer | 2 |

THIRD SEMESTER

| Item # | Title | Credits |
|-----------|---------------------------------|---------|
| ITCC 1314 | CCNA1: Introduction to Networks | 3 |
| COSC 1336 | Programming Fundamentals | 3 |
| PHIL 2306 | Introduction to Ethics | 3 |
| ENGL 1301 | Composition I | 3 |
| MATH 1342 | Elementary Statistical Methods | 3 |

FOURTH SEMESTER

| Item # | Title | Credits |
|---------------|---|----------------|
| ITSC 2321 | Integrated Software Applications II | 3 |
| ITSE 1359 | Introduction to Scripting Languages | 3 |
| SPCH 1321 | Business & Professional Communication | 3 |
| ENGL 2311 | Technical & Business Writing (single-semester course) | 3 |
| | Elective X3XX — Behavioral Science/Social Science | 3 |
| | Total credits: | 60 |