**CISCO CCNA DISCOVERY**

**DEGREES, CERTIFICATES AND AWARDS**
Associate in Science Degree (A.S.)
Certificate of Achievement

**DESCRIPTION**
The Cisco CCNA Discovery program provides general networking theory, practical experience, soft-skills development, and opportunities for career exploration. It teaches networking based on application, covering networking concepts within the context of network environments students may encounter in their daily lives -- from small office and home office (SOHO) networking to more complex enterprise and theoretical networking models later in the curriculum. The program prepares students for two different Cisco certification exams. After completing the program, students will be prepared to take the industry-standard Cisco CCNA certification exam. In addition, students may opt to take the CCENT certification as a first step toward earning the CCNA certification. CCENT certifies the practical skills required for entry-level information and communication technology skills and demonstrates a student’s aptitude and competence to work in an environment that features Cisco networking devices and software.

The Cisco CCNA Discovery curriculum is primarily designed for students who are seeking entry-level information and communication technology skills for positions such as network administrator, network engineer, network technician, computer technicians, network installer, and help desk technician.

**PROGRAM LEARNING OUTCOMES**
1. Demonstrate aptitude and competence for working with Cisco routers, switches and Cisco IOS.
2. Show the practical skills required for associate-level networking support positions.
3. Demonstrate skills necessary to pass two different Cisco certification exams, CCENT or CCNA.

**ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**
The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate’s degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

**CAREER OPPORTUNITIES**
Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Programmer
- Applications Programmer
- Systems Programmer
- Information Specialist
- Programmer Analyst
- Software Engineer
- Systems Analyst
- Systems Integrator
- Project Manager
- Computing Applications Specialist
- Web Developer
- Web Designer
- Webmaster
- Data Administrator
- Database Administrator
- Database Operator
- Database Programmer
- Computer Technician
- Network Technician
- Network Administrator
- System Administrator
- System Operator
- System Manager
- Help Desk Technician
- Computing Support Specialist
- Applications Specialist

**Gainful Employment:** Federal regulations require institutions to provide students with Gainful Employment Information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: [http://www.imperial.edu/courses-and-programs/programs-of-study/](http://www.imperial.edu/courses-and-programs/programs-of-study/)

**TRANSFER PREPARATION**
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

**Transfer Resources:**
- www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine
- www.CSU Mentor.edu – CSU System Information
- www.universityofcalifornia.edu/admissions/index.html – UC System Information
- www.cicau.edu – California Independent Colleges and Universities, Association of Undergraduate Exchange Programs

**FINANCIAL AID**
Financing for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: [www.imperial.edu/students/financial-aid-and-scholarships/](http://www.imperial.edu/students/financial-aid-and-scholarships/)

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## ASSOCIATE DEGREE PROGRAM

### CISCO CCNA DISCOVERY MAJOR – A.S. DEGREE

Twenty-two to twenty-five (22.0-25.0) units required for the major.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

### I. Required courses for the major (22.0-25.0 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 160</td>
<td>CISCO IT Essentials: Hardware and Software</td>
<td>4.0</td>
</tr>
<tr>
<td>CIS 162</td>
<td>CISCO CCNA Discovery 1: Introduction to Networks</td>
<td>4.0</td>
</tr>
<tr>
<td>CIS 163</td>
<td>CISCO CCNA Discovery 2: Routing and Switching Essentials</td>
<td>4.0</td>
</tr>
<tr>
<td>CIS 164</td>
<td>CISCO CCNA Discovery 3: Scaling Networks</td>
<td>4.0</td>
</tr>
<tr>
<td>CIS 165</td>
<td>CISCO CCNA Discovery 4: Connecting Networks</td>
<td>4.0</td>
</tr>
<tr>
<td>WE 201</td>
<td>Employment Readiness</td>
<td>1.0</td>
</tr>
<tr>
<td>WE 220</td>
<td>Internship</td>
<td>1.0-4.0</td>
</tr>
</tbody>
</table>

Total Major Units: 22.0-25.0

IVC Graduation Requirements and GE Pattern: 30.0

Electives (as needed to reach 60 degree applicable units)

Total Maximum Units: 60.0

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## CERTIFICATE PROGRAM

### CISCO CCNA DISCOVERY CERTIFICATE

Twenty-two to twenty-five (22.0-25.0) units required for the certificate.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

### I. Required courses for the certificate (22.0-25.0 units)

<table>
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<td>WE 220</td>
<td>Internship</td>
<td>1.0-4.0</td>
</tr>
</tbody>
</table>

Total Certificate Units: 22.0-25.0

Total Maximum Units: 22.0-25.0