COMPUTER INFORMATION TECHNOLOGY

Associate in Science Degree  (CIP# 1511010307)

This program is designed for students who wish to develop information technology skills in technical customer service, information technology support, and computer security. There is significant flexibility in this degree. It is designed for students who seek immediate employment, and it provides the option for students to transfer as a junior to complete a four-year Bachelor’s degree in Information Systems Technology.

Students are strongly encouraged to consult a career program advisor in the department office for assistance in determining the best education plan for their career goals.

Although scheduling may not always provide for the following progression of courses, students should use the foundation, intermediate and advanced course sequence as a guide in program planning.

All degree-seeking students must satisfy entry testing requirements and satisfactorily complete all mandatory courses in reading, student success, mathematics, English, and English for Academic Purposes in which the student is placed.

Alternative Ways to Earn Credit

Graduates of specific programs at Orange County Technical Colleges and TECO may be eligible to receive college credit for specific courses in this program. You may also be eligible to receive credit toward this degree if you have earned an approved industry certification or Career Pathways credit. For more information and requirements, go to valenciacollege.edu/asdegrees/transferagreements.cfm (http://valenciacollege.edu/asdegrees/transferagreements.cfm) to view the award of credit options. Eligible students should contact the related academic department and/or Career Program Advisor at Valencia for the award of credit.

Technical Certificates

The Computer Information A.S. degree also offers the following college credit certificate programs. These certificate programs can put you on the fast-track to reaching your career goals. They are designed to equip you with a specialized skill set for entry-level employment or to upgrade your skills for job advancement. Most can be completed in one year or less, and all of the courses in the certificate programs are embedded in the A.S. degree. Click on the Certificate tab at the top of the page for more information about the course requirements.

- Computer Information Data Specialist (9 credits) (CIP # 0611050101)
- Computer Information Technology Specialist (18 credits) (CIP # 0511010311)
- Computer Information Technology Analyst (27 credits)
  - IT Security Specialization (CIP # 0511010312)
  - IT Support Specialization (CIP # 0511010312)

Start Right

Degree-seeking students enrolling at Valencia for the first time will have a limited range of courses from which to choose for their first 18 college-level credits. Within the first 18 college credit hours, you will be required to take ENC1101 (3 credits), and if applicable, SLS 1122 (3 credits) and a mathematics course appropriate to your selected meta-major (3 credits). The remaining courses will be chosen from the General Education Core Courses in humanities (3 credits), science (3 credits), or social science (3 credits), and/or the introductory courses within the A.S. degree programs. For specific courses see the Foundation Courses on the "Program Requirements" tab. For course sequencing recommendations, see your Career Program Advisor or create an education plan by logging into Atlas, clicking on the LifeMap tab and clicking My Education Plan.

Potential Careers

- Technical Support Analyst
- User Support Analyst/Specialist
- Applications Systems Analyst
- Information Systems Specialist
- Software Tester/Trainer
- Computer Information Manager
- Internet Security Specialist
- PC Support Technician
- Help Desk Technician
- Security Administrator

Salary & Earnings Information

For salary and wage information, visit: www.floridawages.com (http://www.floridawages.com).

Contacts

Future Students
Contact Enrollment Services at enrollment@valenciacollege.edu or call 407-582-1507.

Current Students

East Campus
Dave Brunick, Program Chair: 407-582-2360
dbrunick@valenciacollege.edu
Launa Sickler, Career Program Advisor: 407-582-2504
lsickler@valenciacollege.edu

West Campus
Joan Alexander, Program Chair: 407-582-1542
jalexander@valenciacollege.edu
Jon Sowell, Career Program Advisor, West Campus: 407-582-1973
jsowell@valenciacollege.edu (jsowell@valenciacollege.edu)

Osceola Campus
Ray Enger, Program Chair: 407-582-4118
renger@valenciacollege.edu (derosa@valenciacollege.edu)
Roxana Boulos, Career Program Advisor: 407-582-4231
rboulos1@valenciacollege.edu (mgonzalez20@valenciacollege.edu)

Internship and Workforce Services

If you need assistance with job resources or in locating an internship, please visit: valenciacollege.edu/internship (http://valenciacollege.edu/internship).

Program Outcomes

- Analyze technical problems as related to customer requirements.
- Design a logical plan for the development of technical requirements.
- Develop resources to meet technical requirements.
- Implement computer systems solutions including documentation.
• Evaluate computer systems problems, plans, and solutions for correctness and appropriateness.
• Communicate effectively with technical and non-technical audiences.

### Foundation Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>FRESHMAN COMPOSITION I</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1134C</td>
<td>NETWORK ESSENTIALS N1</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>COMPUTER FUNDAMENTALS AND APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1113C</td>
<td>COMPUTER MAINTENANCE ESSENTIALS A1</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1142C</td>
<td>INFORMATION TECHNOLOGY PROJECT MANAGEMENT P1</td>
<td>3</td>
</tr>
<tr>
<td>SLS 1122</td>
<td>New Student Experience</td>
<td>3</td>
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</table>

### Intermediate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CGS 2091C</td>
<td>SOCIAL, LEGAL AND ETHICAL ISSUES IN INFORMATION TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1120C</td>
<td>INTRODUCTION TO NETWORK SECURITY S1</td>
<td>3</td>
</tr>
<tr>
<td>COP 2822C</td>
<td>WEB SITE DEVELOPMENT C1</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2545C</td>
<td>DATABASE MANAGEMENT SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Principles of Economics-Macro ~</td>
<td>3</td>
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</table>

### Computer Information Technology Business Elective

Select one of the following:

- ECO 2023 Principles Of Economics-Micro
- GEB 1011 Introduction To Business

### Advanced Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Computer Information Technology Electives 2</td>
<td></td>
<td>14</td>
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<tr>
<td>CIS 2910C</td>
<td>IT CAPSTONE +3</td>
<td>3</td>
</tr>
<tr>
<td>CIS 2943</td>
<td>INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY *</td>
<td>1</td>
</tr>
<tr>
<td>or CGS 2656</td>
<td>Social Networking Job Search</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credit Hours

60

* This course must be completed with a grade of C or better.
* This course has a prerequisite; check description in Valencia catalog.
~ This is a general education course.
1 Any of these courses not being used for a degree requirement may be used for the Business Elective credit. Students planning to transfer to a four-year institution are encouraged to consult a career program advisor to determine the best course selection for transfer.
2 Any course with a subject prefix of CET, CGS (except CGS 1060C INTRODUCTION TO COMPUTERS), CTS, CAP, CIS, COP, or COT not already used to satisfy program requirements
3 CIS 2910C IT CAPSTONE is taken in last semester or with department approval, and satisfactory completion of all mandated discipline specific foundation and intermediate technical courses.

### Computer Information Data Specialist

**Technical Certificate**

**Program Outcomes**

- Design a logical plan for the development of technical requirements
- Develop resources to meet technical requirements

### Total Credit Hours

9

*1 This course is part of a sequence which prepares students for a CompTIA A+ certification examination
*2 This course is part of a sequence which prepares students for a Network + certification examination

### Computer Information Technology Analyst with Specializations in:

- IT Security
- IT Support

**Technical Certificate**

**Foundation Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 2100C</td>
<td>COMPUTER FUNDAMENTALS AND APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1131C</td>
<td>COMPUTER MAINTENANCE ESSENTIALS A1</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1142C</td>
<td>INFORMATION TECHNOLOGY PROJECT MANAGEMENT P1</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1134C</td>
<td>NETWORK ESSENTIALS N1</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1120C</td>
<td>INTRODUCTION TO NETWORK SECURITY S1</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2321C</td>
<td>Linux System Administration L1</td>
<td>3</td>
</tr>
<tr>
<td>COP 2341C</td>
<td>LINUX SHELL SCRIPTING L1</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Information Technology Electives 1

3
Specialization (See below) 3
Total Credit Hours 27

IT Security Specialization
Program Outcomes
• Design a logical plan for the development of technical requirements.
• Develop resources to meet technical requirements.
• Evaluate computer systems security vulnerabilities using appropriate resources.
• Implement computer network security defenses.

CTS 2317C ADVANCED NETWORK SECURITY * 3
Total Credit Hours 3

IT Support Specialization
Program Outcomes
• Analyze technical problems as related to customer requests.
• Evaluate computer systems problems, plans, and solutions for correctness and appropriateness.
• Communicate effectively with technical and non-technical audiences.

CTS 1155C INT TO CUST SVC AND HELP DESK 3
Total Credit Hours 3

Computer Information Technology Specialist
Technical Certificate
Program Outcomes
• Design a logical plan for the development of technical requirements
• Evaluate computer systems security vulnerabilities using appropriate resources.

CGS 2100C COMPUTER FUNDAMENTALS AND APPLICATIONS 3
CTS 1142C INFORMATION TECHNOLOGY PROJECT MANAGEMENT 3
CTS 1131C COMPUTER MAINTENANCE ESSENTIALS A1 3
CTS 1134C NETWORK ESSENTIALS N1 3
CTS 1120C INTRODUCTION TO NETWORK SECURITY S1 3
Computer Information Technology Electives 1 3
Total Credit Hours 18

* This course has a prerequisite; check description in Valencia catalog.
1 Any course with a subject prefix of CET, CGS (except CGS 1060C INTRODUCTION TO COMPUTERS), CTS, CAP, CIS, COP, or COT not already used to satisfy program requirements
A1 This course is part of a sequence which prepares students for a CompTIA A+ certification examination.
N1 This course is part of a sequence which prepares students for a Network + certification examination.
S1 This course is part of a sequence which prepares students for a Security + certification examination.
P1 This course is part of a sequence which prepares students for a Project + certification examination.

L1 This course is part of a sequence which prepares students for a Linux + certification examination.

Notes:
Specialized courses may not be offered every session or on every campus.

Several Florida public universities provide opportunities for A.S. degree graduates to pursue a Bachelor’s degree. All of Valencia’s A.S. degrees will transfer into the Bachelor of Applied Science (B.A.S.) degree offered at UCF’s regional campuses, as well as other universities. For more information on UCF’s B.A.S. degree, go to regionalcampuses.ucf.edu/program/applied-science (http://regionalcampuses.ucf.edu/program/applied-science). For other transfer options that may be available, go to valenciacollege.edu/asdegrees/transferagreements.cfm (http://valenciacollege.edu/asdegrees/transferagreements.cfm). Students who want to continue their education should contact their university of choice for acceptance of this degree.

For students who are interested in pursuing UCF’s B.A.S. degree, 36 credit hours of general education courses will be required. Students will also have to fulfill the state’s foreign language requirement, which is two years of the same high school foreign language or two semesters of the same college-level foreign language.