

Secure Software Program

at ILLINOIS CENTRAL COLLEGE



Illinois
Central
College



Business, Hospitality, and
Information Systems
1 College Drive
East Peoria, Illinois 61635
(309) 694-5558

Imagine you're building a new house. The builders do a great job constructing the house according to your design. The house looks like it should, functions like it should, and feels pretty comfortable. But then a really bad winter storm comes along. You feel a brisk breeze coming through your windows. The builders followed specs, but unfortunately no one contemplated the force or duration of the storm. The builders patch up the insulation and everything works fine... until the next big storm comes along!

Writing the code for business endeavors is a lot like keeping a house well insulated. In our example, the original builders did exactly what they normally do. They built the house to specification and everything was fine until a storm of unimagined proportions occurred. The insulation then failed and the storm came in. But what if there was a way to incorporate safeguards when building the house to keep that storm out?

Now imagine that house you're building is the programming code for business and industry functions. Most coders write programs according to specifications and everything works well until a hacker or other invader creates a storm of chaos in your software. Then the "builders" or programmers create a "patch" to keep the problem from reoccurring.

What if you could avoid a patch in the first place?

What if there was a way to learn how to incorporate safeguards while writing the code to keep the hackers out?

Now there is.

It's called the **Secure Software Program**
IN APPLIED SCIENCE

Secure Software Program

is offered at Illinois Central College in conjunction with the Central Illinois Center of Excellence for Secure Software (CICISS). The program marries college level programming instruction with apprenticeships. You'll be trained in programming techniques developed and approved by the Department of Homeland Security and Carnegie Mellon University with on-the-job training. The program lasts roughly two and a half years.

CURRICULUM

These are the courses you will have to take to complete your degree. For more specific information, review the ICC Catalog online at icc.edu/catalog or talk to your advisor.

PROGRAM COURSES

CMPSC 115	Essentials of Programming	3 credit hours
CMPSC 122	Introduction to Computer Security	3 credit hours
CMPSC 135	CS I: Programming in Java	3 credit hours
CMPSC 140	Introduction to Relational Databases	3 credit hours
CMPSC 200	C+ Programming	3 credit hours
CMPSC 222	Secure Coding	3 credit hours
CMPSC 235	CS II: Advanced Programming in Java	3 credit hours
CMPSC 237	Mobile Application Programming	3 credit hours
CMPSC 245	Structured Query Language	3 credit hours
CMPSC 262	Introduction to Assured Software Engineering	3 credit hours
CMPSC 265	Database Administration	3 credit hours
COMPSC 270	Structured System Analysis	3 credit hours
Approved Elective 1	Electives may be taken from computer science, computer management-CISCO, computer management-networking, computer management-web or computer management-general with the approval of your advisor. See Catalog	3 credit hours
Approved Elective 2		3 credit hours

GENERAL COURSES Required for Associate Degree in Applied Science

ENGL 110 or ENGL 116 or ENGL 125 or ENGL 201	Composition I or Agricultural Communications or Business Communications or Technical Communications	3 credit hours
COMM 110 or COMM 212 or In addition to ENGL classes listed above:	Communication Process and Practice Public Speaking	3 credit hours
ENGL 110 or ENGL 111 or ENGL 116 or ENGL 125 or ENGL 201	Composition I Composition II Agricultural Communications Business Communications Technical Communications	
Any biology (except BIOL 150), chemistry, earth science, physics, physical science course with a lab section OR HORT 110 or AGRI 112 or AGRI 201	See Catalog Introduction to Horticultural Plants Basic Soils Crop Production	4 credit hours
MATH 115 Or BUS 120	College Algebra Business Mathematics	3 credit hours
HUMANITIES See Catalog for specific courses	Three credit hours in designated Art, Dance, Film, Foreign Language, History, Humanities, International Studies, Literature, Music, Philosophy, or Theatre	3 credit hours

Note: Students starting in the ICC program will apply for the apprenticeship during their first semester of school and begin working for the employer in the second semester. Participating employers will provide specific information during the first semester. Students unable to secure an apprenticeship position will have further opportunities for paid and unpaid internships.

Steps to Enrollment

Before you can enroll in the program, you will need to complete the application process. Follow the steps outlined below:

Step 1 Apply to ICC

Apply online or download and complete our Admission Form at icc.edu/admissions/enrollment/steps-to-enrollment which can be mailed to: Enrollment Services
Illinois Central College
1 College Drive
East Peoria, IL 61635-0001

Step 2 Send Your Scores and Transcripts

Have your high school send ICC your official transcripts. When you take the ACT, have your scores sent to ICC, ACT code 1035.

Step 3 Take the Academic Placement Tests

Testing is available at all campuses. To make an appointment please call the Testing Center at (309) 694-5234.

Step 4 Apply for Financial Assistance (optional)

Be sure to fill out your online Free Application for Federal Student Aid (FAFSA). We encourage students to complete the FAFSA as soon as possible after January 1. Visit the Financial Aid website or call the office with any questions at (309) 694-5311.

Step 5 Apply for a Foundation Scholarship (optional)

The ICC Educational Foundation awards over 600 scholarships each year! To apply, simply fill out the online application between January 15 and April 1. Some scholarships may be available year-round. Check the Scholarship site for more information.

Step 6 Meet with an Academic Advisor

Make an appointment to meet with your academic advisor. The name and phone number of your advisor can be found on your placement test results, or call (309) 694-5558 to set up an advisor appointment in the Business, Hospitality, and Information Systems Department.

Step 7 Register for Classes

After you meet with your academic advisor to plan your course schedule, use your ICC eServices account to register online. You also may visit Enrollment Services at the East Peoria, North, Downtown, and Pekin Campuses to complete your registration. Check our hours of operation to fit within your schedule.

Step 8 Make Financial Arrangements

Don't forget to make financial arrangements for your tuition. Tuition payment should be on time and can be made in person by cash, check, or credit card. Use your ICC eServices account to pay tuition online or to set up a payment plan.