EARN COLLEGE CREDIT

DUAL CREDIT

During their senior year, students can participate in the Tech Prep Dual Credit Program at Elgin Community College (ECC) during the school day and receive both high school and college credit. Enrollment in this program is limited, and an application is required. The school district pays for tuition at ECC; students must pay for required supplies, fees, and some textbooks.

ECC offers Tech Prep Dual Credit classes in over 20 career and technical areas. Industry-recognized certification is available in a number of high-demand areas.

ARTICULATED CREDIT

A number of D300 courses are linked with ECC courses and students may earn college credit for these high school courses by enrolling at ECC after graduation.

Each articulated high school course is the equivalent of an ECC course and meets ECC's learning objectives and task competencies. To receive college credit, students must:

- Complete the articulated high school course with a final grade average of "B" or better each semester.

- Enroll in a degree-seeking program at ECC in the fall semester following graduation (or within 27 months of high school graduation). The high school graduate is entitled to ECC college credit and to accelerated placement at Elgin Community College.

POTENTIAL CAREERS

- Client Services Director
- Data Systems Engineer
- Database Administration
- E- Business Specialist
- Game Developer
- Information Technology Engineer
- Mobile Applications Developer
- Network Administration
- Network Architect
- Network Security Analyst
- PC Support Specialist
- Programmer
- Project Engineer
- Senior Application Developer
- Software Applications Specialist
- Systems Administrator
- Telecommunications Network Technician
- User Experience Designer
- User Support Specialist
- Virtual Reality Specialist
- Web Developer

Elgin Community College

ILLINOIS Pathways
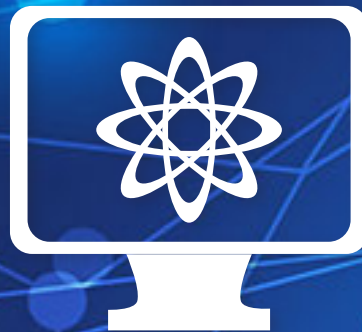
For more information:

www.d300.org/pathways

INFORMATION TECHNOLOGY AND COMPUTER SCIENCE Pathway

@ Jacobs High School

DISTRICT 300

A PATHWAY TO **SUCCESS** IN COLLEGE AND CAREER

District 300 strives to ensure every student is college and career ready upon graduation. Our pathway programs provide students with the skills to obtain an entry-level job upon graduation and the knowledge to be successful in a college classroom.

FOUR YEAR SEQUENCE: RECOMMENDED COURSES
Designed to begin in 9th grade; please see a counselor for more detailed information about this sequence of courses.

FRESHMAN YEAR

Intro to Coding (3833 / 3834)
Learn the fundamentals of computer science including website design through HTML and other languages, basic formula functions through Microsoft Excel, and procedural coding in java.

Web Development (6810 / 6811)
Design and develop websites using html language, graphics, and animated movies.

SOPHOMORE YEAR

AP Computer Science Principles (3538 / 3539)
Students learn computational thinking practices, abstraction, data and information, algorithms, programming, the internet, and the global impact of computers.

JUNIOR YEAR

AP Computer Science A (3533 / 3534)
Created to be equivalent to a first-semester college-level course in computer science.

Robot Engineering and Coding (3844 / 3845)
Students will design and build a mobile robot for competition by learning key STEM principles, robotics concepts, and the RobotC computer language.

SENIOR YEAR

ECC Tech Prep Dual Credit Program
Earn college credit while selecting classes that focus on over 20 career and technical fields and provide industry certification opportunities. You will attend Elgin Community College either all or part of the day.

THREE YEAR SEQUENCE: RECOMMENDED COURSES
Designed to begin in 10th grade; please see a counselor for more detailed information about this sequence of courses.

SOPHOMORE YEAR

Intro to Coding (3833 / 3834)
Learn the fundamentals of computer science including website design through HTML and other languages, basic formula functions through Microsoft Excel, and procedural coding in java.

JUNIOR YEAR

AP Computer Science Principles (3538 / 3539)
Students learn computational thinking practices, abstraction, data and information, algorithms, programming, the internet, and the global impact of computers.

SENIOR YEAR

AP Computer Science A (3533 / 3534)
Created to be equivalent to a first-semester college-level course in computer science.

Robot Engineering and Coding (3844 / 3845)
Students will design and build a mobile robot for competition by learning key STEM principles, robotics concepts, and the RobotC computer language.

ADDITIONAL OPTIONS FOR SENIOR YEAR

D300 Internship Program (6869 / 6870)
The *District 300 Internship Program* is a partnership between D300 high schools and the industrial, business, professional and service communities of the Fox Valley area. The program provides an opportunity for hands-on career exploration in a variety of vocational areas.

Essential Technology (6884 / 6885)
Receive experience working in a real life D300 tech support environment during this year-long course. When not supporting student or staff technology needs, you will work on a variety of independent pathways. The Tech Support Interns have three main objectives:

1. To support student technology use through troubleshooting and repair.
2. To support the faculty and staff with technology needs.
3. To pursue independent learning pathways.

ECC Tech Prep Program
Earn college credit while selecting classes that focus on over 20 career and technical fields and provide industry certification opportunities. You will attend ECC either all or part of the day.

EXAMPLES OF REGIONAL POST-SECONDARY DEGREES

ASSOCIATE'S (2 YEARS)
Associate's Degree in Engineering Sciences (A.E.S.)

BACHELOR'S (4 YEARS)
Bachelor of Science (B.S.) in Management Information Systems

MASTER'S (BACHELOR'S PLUS 2+ YEARS)
Master of Science (M.S.) in Management Information Systems