



think·evolve·act

## Information Technology and Computer Science



### The Juniata Advantage

- **Gain Experience:** Juniata's information technology (IT) faculty maintain professional relationships with colleagues and clients that provide a variety of internship choices. Intern on-campus or with businesses and corporations like NBC, Hershey Entertainment, Kish Bank, or a variety of state agencies. Or, help **operate the campus technology service** for hands-on experience in tech support, research and development, and training.
- **Go Interdisciplinary:** The gathering of information technology, computer science (CS), digital media, and various business, communication, and environmental science programs in the newly renovated Dale Hall enables students to understand and interact with their counterparts in professional careers. Juniata recently created an **Integrated Media Arts POE** that combines several aspects of art, communication, and more with IT to prepare students for careers in marketing, filmmaking, website development, and beyond.

### Juniata's Outcomes

Over 90 percent of IT/CS graduates are employed in their field within six months of graduating at firms like Microsoft, Deloitte Consulting, Lockheed Martin, Excel, Inc., Verizon, Highmark, comScore, Fidelity Investment, Aflac, Geico, Containment Solutions, and Wells Fargo, and **acceptance to graduate programs** at Villanova, Bowling Green State University, Penn State, and Johns Hopkins.

### Our Recent Graduates

- Harris Cauler '15, who created Fusepoint, a web design company, while at Juniata, is **currently employed as an emerging leader in the informational technology track at GEICO**.
- Josh Jessell '14 is **employed at Fidelity Investments** in the Research Triangle Park, N.C. He works primarily with network infrastructure and server analysis as a **systems engineer**.
- Paul Kuhn '15 is **currently employed at UPMC in Pittsburgh, Pa.**
- Haining Zhu '15 is currently **enrolled in graduate school** at Penn State's College of Information Sciences and Technology, where she received an assistantship.

*"The professors in the computer science department have great technical backgrounds that provide me with what I need to excel in this field. And, since I am studying at Juniata, I am able to take different classes, like guitar class, but still have a POE in computer science."*

*—Elainea Hess '16*

*COMPUTER SCIENCE*

### A Sampling of Courses

Database Management Systems  
Digital Video Production  
Geographical Information Systems  
Human Computer Interaction  
Information Discovery and Architecture  
Innovations for Industry (I4I)  
Metaverse  
Network Design and Management  
Security Engineering  
Social Networks  
Web Design and Programming

## An IT and Computer Science POE Story

First, choose from Programs of Emphasis (POE) in **Information Technology**—a broad-based interdisciplinary program, IT incorporates studies in computer science, communication, and business—or **Computer Science**, a “classical” study of computing and software design. Either way, you’ll gain an appreciation for the widespread acceptance of multiplatform, distributed computing environments and gain a competitive advantage in today’s business environment. If your interest is more in media and creativity, then an **Integrated Media Arts** POE is a good choice.

Many IT/CS courses feature hands-on experience, such as Innovations for Industry, a junior/senior course sequence in which **students partner with a company to complete an IT project**—like working on a secure file transfer project for the Tax and Trade Bureau in Washington, D.C., or building a website from scratch for a medical center. You can also gain hands-on experience by working at Juniata’s Technology Solutions Center or as a student server manager for Campus Network Security.

At Juniata, students can also blend in instruction from other departments such as environmental science, business, theatre, and communication. The result is a variety of extensive real-world experiences for all students, coupled with support. But don’t just take our word for it.

*“I like studying IT at Juniata, because we are able to get hands-on experience with the professors due to small class sizes,” says Paul Kuhn ’15. “I also feel that we cover a wide range of topics in IT, which allows students to really get a grasp of the field to help determine what they want to do with the rest of their lives.”*



## Student Opportunities

**Internships:** At Juniata, 100 percent of IT students intern and they do so with organizations such as the U.S. Department of the Treasury, comScore, Deloitte, and Pennsylvania’s Department of State.

**Gain Managerial Experience:** Work at the College as one of Juniata’s student IT managers in web development, networking, digital media and training, and technical support.

**Study Abroad:** Our department’s programs mesh well with study in Germany, France, Ireland, Europe, and Asia. Students even intern while abroad with companies like Siemens of Germany.

**Undergraduate Research:** Conduct research on a topic of your choosing with the guidance of a faculty member. Then, present at conferences—like Juniata’s Liberal Arts Symposium, the National Conferences for Undergraduates, or seminars/workshops specific to IT and CS. **Recent examples:** Kyle Moody ’17, “Nanotechnology and the Military;” Brianna Watt ’16, “How Secure is Your Mobile Phone?”

**Integrated Media Arts:** From digital video production to media writing, you can incorporate various types of study and analysis through Juniata’s **integrated media arts** POE.



## Faculty

At Juniata, **93 percent** of faculty hold the highest degree in their field. In the IT/CS department, faculty have published in *Security Management* and presented talks on the mathematics behind Google, human-computer interaction, and network security. To learn more about Juniata’s IT/CS faculty, visit: [www.juniata.edu/academics/departments/it-computers-media/faculty.php](http://www.juniata.edu/academics/departments/it-computers-media/faculty.php)

IT and CS Department Chair and John and Irene Dale Endowed Chair in Information Technology and Computer Science:  
Loren Rhodes, B.S., M.A., Ph.D.,  
Penn State University.



Check out the information technology and computer science department web page to explore your career path.

Your Career Path

**JUNIATA**  
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