

A CLOSER LOOK

BAS Informatics



THE UNIVERSITY OF ARIZONA
UA South

Informatics

The term Informatics is broadly used to describe the study and practice of creating, storing, manipulating and sharing information. It uses computation as a universal tool to solve problems in other fields, communication, and to express ideas. Informatics students develop a strong base of theoretical and practical interdisciplinary experiences. Students working towards a BAS degree in Informatics will learn the core ideas of Informatics in a discipline-independent form and then in the context of specific focus areas including system administration, software development, information management, and digital design. Informatics is offered in the following locations: Sierra Vista, Pima County, Mesa, Yuma County, Online.

About Faculty:



Li Xu, Ph. D.

Associate Professor |
Program Director, Computer
Science, & Informatics
lxu@email.arizona.edu

Dr. Li Xu is an Associate Professor in Computer Science at the University of Arizona South. Dr. Xu obtained her PhD in Computer Science at Brigham Young University. In 2003, she became a faculty member at the University of Arizona South. Her research interests include computational thinking, programming, data management, machine learning, and computer science education.

What are the Requirements to Enter the Program?

The Informatics program requires a supplemental program application in addition to admission to The University of Arizona. The entrance requirements include:

- Minimum 2.5 GPA in your college coursework
- Resume
- Goal statement
- AAS degree in computer related field (recommended)

Please contact us if you have any questions about the transferability of your credits, your admissibility to the program, or the application process. For full application instructions, please visit <http://uas.arizona.edu/admissions>.

Sample Courses in the Program

INFV 401 Human Computer Interactions - This course is a beginning level exploration of human-computer design, interaction and interfaces. The theory of human-computer interaction (HCI) is introduced as well as to the principles of effective visual design using user experiences.

INFV 403- Concepts of web design using multimedia, visual, communication and interaction principles. Students will be introduced to web authoring, design solutions and emerging technologies.

INFV 320 Computational Thinking & Doing- This course provides an overview of basics of programming and techniques used by computing professionals in a variety of application areas. Topics include computation, programs, algorithms, programming languages, and complexity, as well as how these concepts and techniques are used to solve problems in Informatics.

Academic advisors

Sierra Vista – (520) 458-8278

Online – (520) 626-1702

Santa Cruz County – (520) 287-8632

Pinal County – (520) 840-4878

Douglas – (520) 439-6882

Pima County – (520) 626-1702

Questions?

For more information, reach out to a UAS representative. You can find one in your area by visiting our website at:

<http://www.uas.arizona.edu>



A CLOSER LOOK

BAS Informatics



THE UNIVERSITY OF ARIZONA
UA South

Software Development Track

Learn principles of analysis, applied mathematics, statistics, human user interaction, and system and web programming in a major in Informatics with a concentration in Software Development.

Sample Employers

- Web design companies
- Information technology consulting firms
- Software development companies
- Online publishing companies

Potential Career Areas

- Editorial/Media
- Consulting and advising
- Software development
- Web design

Job Title with Salary Range

-Software Developer, Systems Software	\$62,500 - \$96,600
-Video Game Software Test Engineer	\$42,200 - \$79,900
-Instructional Designer and Technologist	\$33,700 - \$59,300
-Online/Web Project Manager	\$65,000 - \$105,000

Sources of Information: United States Department of Labor: Bureau of Labor Statistics (2011)

System Administration Track

Learn principles of analysis, applied mathematics, statistics, human user interaction, network security, system administration, and cloud computing in a major in Informatics with a concentration in Systems Administration.

Sample Employers

- Universities and colleges
- Banks and financial institutions
- Corporations and government agencies
- Computer and application service providers

Potential Career Areas

- Network management and planning
- Information technology instruction services
- Network security and analysis
- Information technology support and maintenance

Job Title with Salary Range

-Computer Systems Engineer/Architect	\$42,200 - \$79,900
-Network Administrator/Network Engineer	\$43,400 - \$71,000
-Online Researcher/Information Broker	\$20,000 - \$73,880
-Business Analyst/Management Analyst	\$43,900 - \$78,500

Sources of Information: United States Department of Labor: Bureau of Labor Statistics (2011)

▶▶▶ Informatics Tracks ◀◀◀

Information Management Track

Learn principles of analysis, applied mathematics, statistics, human user interaction, web programming, and database management in a major in Informatics with a concentration in Information Management.

Sample Employers

- Archives and museums
- Research institutes
- Data centers/Database management companies
- Public, special, and academic libraries

Potential Career Areas

- Marketing
- Editorial/Media
- Database management
- Digital information repository

Job Title with Salary Range

Geographic Information Systems Technician	\$42,200 - \$79,900
Database Analyst	\$65,000 - \$85,000
Marketing Research Analyst	\$33,770 - \$61,070
Auditor, Electronic Data Processing	\$45,000 - \$60,000

Sources of Information: United States Department of Labor: Bureau of Labor Statistics (2011)

Digital Design Track

Learn principles of analysis, applied mathematics, statistics, human user interaction, web and user interface design, and information technology in a major in Informatics with a concentration in Digital Design.

Sample Employers

- Website design companies
- Educational and training software companies
- Nonprofit educational organizations
- Public and academic libraries

Potential Career Areas

- Information literacy teaching
- Instructional design
- Technology management
- Training simulation design

Job Title with Salary Range

Software Developer, Applications	\$55,000 - \$89,300
Web Administrator/Webmaster	\$42,200 - \$79,900
Multimedia and Graphic Artists	\$34,800 - \$60,800
Distance Learning Coordinator	\$41,000 - \$76,700

Sources of Information: United States Department of Labor: Bureau of Labor Statistics (2011)