

Applied Computing

BS

2017-2018
Academic Year



School of Professional Advancement

125 Gibson Hall

Phone: (504) 865-5555

Email: askscs@tulane.edu

<https://sopa.tulane.edu>

GENERAL REQUIREMENTS FOR STUDENTS MATRICULATING IN ACADEMIC YEAR: 2017-2018

DEGREE: **BACHELOR OF SCIENCE**

TOTAL CREDITS: 120

MAJOR: **APPLIED COMPUTING SYSTEMS AND TECHNOLOGY**

MINIMUM CUMULATIVE GRADE POINT AVERAGE: 2.0

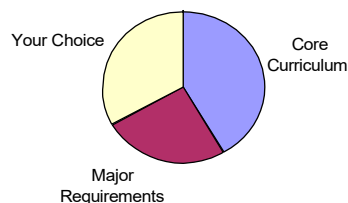
MINIMUM MAJOR GRADE POINT AVERAGE: 2.0

CORE CURRICULUM REQUIREMENTS			MAJOR REQUIREMENTS	36 CREDITS
Area	Credits	To Be Selected From	Required Courses	
First Year Writing	4	ENGL 1010 or Equivalent	CPST 1200 – Fundamentals of Info. Systems and Information Technology	
TIDES – 1 course in fall semester	1-1.5		CPST 2200 – Programming Fundamentals	
Foreign Language – Competence at 1020-Level (1-2 courses depending on Placement and language)	3-8	Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, or Spanish	CPST 2300 – Database Fundamentals	
Cultural Knowledge – 1 Humanities 1 Fine Arts	6	Courses from departments designated Humanities and Fine Arts	CPST 3600 – IT Hardware & Software Fundamentals	
Cultural Knowledge – Social Science	6	Courses from departments designated Social Science	CPST 3700 – Networking Fundamentals	
Quantitative Reasoning 2 Math courses	8	MATH 1210 or equivalent and MATH 1220 or MATH 1230	CPST 3900 – Fundamentals of Information Security & Assurance	
Scientific Inquiry – 1 Lab Science 1 Science or Math	4-8	Courses from departments Designated Science and Math	Students may elect any of the following three options. Choose six courses from one of the following concentrations: Option: Business Systems Analysis Concentration CPST 3500 CPST 3550 CPST 4500 CPST 4550 One 2000-level or above CPST elective One from: CPST 3250 Human-Computer Interaction or CPST 4320 Business intelligence Option: Information Technology Concentration CPST 3500 CPST 3610 CPST 3650 CPST 3690 CPST 3710 CPST 3930 CPST 4350 CPST 4610 CPST 4640 CPST 4650 CPST 4670 CPST 4700 CPST 4710 CPST 4750 CPST 4930 CPST 4950 Option: Integrated Application Development Concentration CPST 3250 CPST 3310 CPST 3550 CPST 4250 One 2000-level or above CPST elective One from: CPST 3220 Object-Oriented Programming with Java CPST 3230 Programming in C++ CPST 3400 Website Develop with XML/XHTML CPST 3410 Website Develop with JavaScript CPST 3430 Website Develop with	
Writing Intensive	4		NDA	
Public Service – 1 st Tier 2 nd Tier		1000-3000-Level 3000-Level or above		
Western Traditions	3	Refer to Undergraduate Core Curriculum Guide		
Outside Western Traditions Or Comparative Cultures Intl. Perspectives	3	Refer to Undergraduate Core Curriculum Guide		

Students enrolled in Newcomb-Tulane College cannot earn A minor in Applied Computing Systems and Technology.

To complete the required 120 hours, you may choose to take additional courses:

1. In your major
2. Of interest to you
3. To satisfy another major (32 hours)
4. To satisfy another minor (16 hours)



- The Degree Plan and other information provided in this booklet serve only as advising tools. Newcomb-Tulane College advisors will help advise you on the core-curriculum, decide on a major, and consult on any academic success issues.
- Your major advisor (Jim Simmons (504) 865-5555 or jsimmon1@tulane.edu) will advise you on major requirements.
- Students with multiple majors will have more than one advisor and will need to consult with the appropriate advisor.
- Be in the Know about your major! By declaring early, you have access to a major advisor, are able to enroll in "majors only" classes, and are on list serves that enable you to receive information about events, internships, and opportunities.
- Pre-med and Pre-law students should also consult with the health professions advisors or the pre-law advisors.

What Can I Do with a Major in...

Applied Computing BS

GENERAL INFORMATION

- The program in Applied Computing Systems and Technology provides an academic program of study that furnishes a body of knowledge and methods, as well as practice in the application of computing technologies. The program focuses on problem-solving skills and techniques needed to provide computer-based solutions to practical problems.
- Develop excellent interpersonal skills for effective communication with technical and non-technical colleagues.
- Be aware that careers in computers and technology are constantly changing.
- Be prepared to require training and learn new information on a regular basis.
- Certifications are often an important part of training for technical careers. Obtain the certifications that are the most applicable to career goals and interests.
- Gain as much diverse technical experience as possible. Seek positions in computer labs, retail computer/technology stores, or as technological support for any office, organization or business.
- Learn about technology in additional areas such as audio/visual or telecommunications.

SKILLS

- High proficiency in written/oral communications
- Critical thinking skills
- Decision making skills
- Objectivity
- Interpersonal skills
- An aptitude for mathematics
- Be able to analyze, compare, and interpret facts and figures quickly
- Able to clearly communicate your results to clients and managers
- Analytical skills
- Proficiency utilizing computers
- Ability to work independently

CAREER AREAS

SYSTEMS DEVELOPMENT

- Analysis
- Design
- Support
- Systems Integration
- Database Administration
- Business Application Development
- Chief Information Officer

NETWORK TECHNOLOGY

- Intranet Development
- Intranet Administration
- Hardware and Software Design
- Support
- Chief Technology Officer
- NW Administration
- System Administration

INTERNET

- Programming
- Software Design
- Systems Analysis
- Web Site Design
- Web Site Administration

NON-TECHNICAL

- Customer Service
- Training
- Sales
- Product Support
- Technical Writing
- Marketing

EMPLOYERS

- Financial institutions
- Consulting firms
- Computer companies
- Healthcare organizations
- Entertainment companies
- Telecommunications companies
- City, state and federal government
- Insurance companies
- Manufacturers
- Retailers
- Hotels and restaurants
- Educational institutions
- Utilities

- Financial institutions
- Consulting firms
- Computer companies
- Healthcare organizations
- Entertainment companies
- Telecommunications companies
- City, state and federal government
- Insurance companies
- Manufacturers
- Retailers
- Hotels and restaurants
- Educational institutions

- Network access points
- Hardware & software vendors
- Web site design services
- Organizations with self-managed web sites
- Internet service providers
- Search engine companies

- Software developers
- Technical service providers

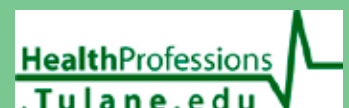
If you think you might be interested in this major, but you are not absolutely sure, an exploratory advisor can help you explore major and career options, please go to:



If you are interested in information about Law Professions, please go to:



If you are interested in information about Health Professions, please go to:



What Can I Do with a Major in...

Applied Computing BS

EDUCATION/TRAINING

- Teaching
- Corporate Training
- Community Training
- Schools: public & private
- Community colleges
- Universities
- Corporations
- Non-profit organizations

CONSULTING

- Consulting firms
- Self-employed

PROFESSIONAL ORGANIZATIONS

Association for Computing Machinery
www.acm.org

Association for Information Technology Professionals
www.aitp.org

Association for Women in Computing
www.awc-hq.org

Computer Measurement Group
www.cmg.org

Computer Professionals for Social Responsibility
www.cpsr.org

Computer Special Interests Group
www.acm.org/sigs

Independent Computer Consultants Association
www.icca.org

Network Professional Association
www.npanet.org

Society for Technical Communication
www.stc.org

Women in Technology
www.womenintechnology.org

RELATED WEBSITES & ASSOCIATIONS

Dice: The Career Hub for Tech
www.dice.com

Computer Jobs
www.computerjobs.com

ComputerWork
www.computerwork.com

IT Jobs
www.itjobs.com

Monster
www.monster.com

Tech Careers
www.techcareers.com

*For Jobs, internships, resume assistance,
interviews, and self-assessments, please
go to:*



*Tulane University is committed to your academic success
and provide several services to assist.*