Become involved at IUPUI!

Take advantage of unique opportunities to complement your studies (club involvement, internships, research, study abroad, service learning, RISE courses)

https://thespot.iupui.edu/

WiCS
(Women in Computer Science Club)
Hello from the Computer Science Advisor!

- Tenille Bullock—Undergraduate Academic Advisor and Program Coordinator
- Office Location – Innovation Hall IO 369
- Email: tbullock@iupui.edu
- Phone: 317-274-2724
- Schedule appt through SAS Student Appointment Scheduler
Why see an academic advisor…

- Defining and developing educational career plans
- Navigating campus life
- Registration preparation
- Pre-requisite, course and degree requirement questions
- Understanding and following policy & procedure — Withdrawal, grade requirements, add/drop
- Resource referral
- Academic struggles and celebrations
- Internship and career questions
- Degree Audit — Understanding your Academic Advising Report
Your Role and Responsibility as a Student

- Be familiar with all academic requirements
- Seek appointments with academic advisors in advance of registration
- Understand that the responsibility for determining an appropriate academic program and for meeting every degree requirement rests with the student
- FERPA - IUPUI, in compliance with the Family Educational Rights and Privacy Act (FERPA), provides that, with the exception of directory information, all student records are confidential and available only to the student.
Importance of your IUPUI Email

Check your IUPUI email regularly! This is used as official university communication.

Job postings, campus events, important dates and other valuable information
Degrees in Computer Science
Bachelor Degrees in Computer Science

120 credit hours required

How to stay on track to finish in 4 years?

—Complete approximately 30 credit hours each year (Fall, Spring, Summer)
—Balance school, life, work, and studying
CSCI Bachelor Degree Options

**Bachelor of Science (BS)**
- 5 math classes required
- Fewer applied courses, more theoretical courses
- Math minor can be easily earned

**Bachelor of Arts (BA)**
- Applied Focus
- 2nd Part of Core Differs (N Series/Applied courses)
- Room to accommodate a world language
- Room for more general, open electives (add a minor)
Other BS Degree Options

Biocomputing Track
- Pre-med requirements incorporated in degree requirements
- Life science concentration
- Gives students another career option if medical school is not a fit

Dual BS/MS program
- Completion of 60 credits
- 3.2 GPA or better
- A’s or high B’s in CSCI courses through CSCI 36200
- Allows you to “double count” 3 graduate level classes toward BS AND MS thus completing MS in 1 year
New Degree (fall 2021) – BS in AI

Bachelor of Science in Artificial Intelligence – concentration in Data and Computational Science

The curriculum emphasis in this concentration focuses on artificial intelligence and machine learning with software and data analytics applications.
Degrees Requirements/Electives

Bachelor of Science, computer science
Bachelor of Arts, applied computer science
# Math Requirements for Each Degree

## Bachelor of Science, CS
- MATH 16500 Calculus I
- MATH 16600 Calculus II
- MATH 17100 Multidimensional Math
- *(MATH 26100 Multivariate Calculus for math minor)*
- STAT 35000 Statistics
- MATH 35100 Linear Algebra

## Bachelor of Arts, Applied CS
- MATH 15300 College Algebra
- MATH 15400 Trigonometry
- STAT 30100 Elementary Statistics
Core Computer Science Courses

- CSCI 23000 Computing I (MATH 15300 is a co-requisite)
- CSCI 24000 Computing II (MATH 15300 and CSCI 23000 are prerequisites)
- CSCI 34000 Discrete Computational Structures (MATH 15300 is a pre-requisite) – taken along side CSCI 24000
- CSCI 36200 – Data Structures (CSCI 24000 and CSCI 34000 are prerequisites)
Computer Science Elective Areas

• Software Design and Engineering
• Database Systems and Data Science
• Networking and Security
• Graphics and Visualization
• Web programming
• Artificial Intelligence
• Data Mining
Life and Physical Science Course Options

• It is a limited list compared to the campus-wide listing.
• Requirement is 4 lecture courses; one course MUST have a lab component. BS majors – this lab component is met through PHYS 15200.
• Astronomy and Geology courses are popular. If you have an interest in working in the life sciences, you may want to consider biology and/or chemistry.
• This list is available online – Canvas Site/iGPS
Degrees Requirements/Electives

Bachelor of Science, Artificial Intelligence
concentration in Data and Computational Science
Math Requirements for BS, AI

- MATH 16500 Calculus I
- MATH 16600 Calculus II
- MATH 17100 Multidimensional Math
- MATH 26100 Multivariate Calculus
- STAT 41600 Probability
- MATH 35100 Linear Algebra

Math minor is automatically built into degree if C or higher is earned
Artificial Intelligence Courses

- AIS 10000 Intro to AI (3)
- AIS 20000 Intro to Data Science (3)
- AIS 30000 Human Interaction AI (3)
- AIS 40000 Recent Trends in AI (3)
- AIS 40100 Ethics in AI (3)

AI degree has focused course requirements, no room for open electives
Academic Advising & Resources
Viewing Degree Requirements

- Checklists – CS Advising Canvas Site
- Academic Advisement Report – one.iu.edu>Academic Advisement Report
- iGPS – degree maps and course descriptions
Computer Science Advising Canvas Site

One-Stop-Shop for all things CS advising related!

• Degree checklists and general education course options
• CS Senior capstone options
• Grade Replacement Policy
• Drop Procedure
• And more!

• To be added to the course – email tbullock@iupui.edu
Other Important Resources

**School Bulletin**
- Degree Requirements
- School Policies and Procedures
- Course Descriptions

**Student Central**
- Academic Calendar
- Tuition and Fee Information
- GPA Calculator
iGPS Degree Map and Degree Planning Videos

iGPS Degree Map - degree requirements listed by recommended semester, is an example of a 4-year plan to complete degree, can be used to build your individual degree plan.
Minors and Certificates
Benefits of Adding a Minor or Certificate

• Allows you to take courses in an outside area of study – for personal interest or added expertise
• Adds versatility to a major
• Demonstrates a strong work ethic to potential employers
• Stand out to employers
Pursuing a Minor or Certificate

The decision to pursue a minor or certificate depends on your academic and personal interests. Some questions to ask yourself include:

• How much more time will it take for me to graduate?
• Is it worth it to me to spend the extra time and money?
• How important is the minor or certificate to me?
• Do I want to add more skills for personal reasons or make my skills more competitive in the job market?
• Explore [IUPUI Minor Options](#)
Math Minor - great option for BS students

A grade of C or better is required in each course.

• MATH 16500
• MATH 16600
• MATH 17100
• MATH 26100 (will count as a CS elective)
• MATH 35100 (or 51100)
• STAT 35000

Declare your math minor intent here.
Admission Requirements to Computer Science if not in School of Science

• Completion of CSCI 23000 with a grade of C or better
• 2.0 GPA or higher
• Apply online when above requirements are met
What is your current school and major?

- Log into one.iu.edu
- Go to your Student Center
- Click on Academics, then Program
- You should see your Program and Major listed.
Who is your assigned advisor?

- Open the Student Appointment Scheduler App in one.iu.edu
- Your assigned advisor will be listed.
IUPUI Campus Resources

- Bepko Learning Center
- MAC – Math Assistance Center
- CAPS – Counseling and Psychological Services
- AES – Adaptive Educational Services
- PREP’s Office – Career Preparation for Science Students
What’s Next?

• Spring 2023 courses available to view online on Sept. 16.
• Schedule an appointment with Tenille or an appointment with your University College advisor through SAS.
• I will have group advising sessions in October – stay tuned!
• October 24th – November 4th: Priority registration using One.iu.edu>Student Center (for students enrolled in Fall 2022 classes). We will be registering together during class on Thursday, October 27th.
• I will upload a To Do List in Canvas you should use to prepare for your spring registration.
Developing Your 4 Year Plan
Become familiar with School and Degree Requirements

• Go through your department’s website or Canvas site – checklists, plans, advising resources

• Check out your iGPS Degree Map

• Read the IUPUI School of Science Bulletin - degree and program requirements, course descriptions
Important Considerations

• Course Prerequisites/ order courses must be taken

• Semester(s) in which course is offered

• Typical course load is 15 credits each fall and spring

• How do incoming credits apply to degree requirements

• Include any required prerequisites not included in degree requirements

• Incorporate minor classes
More Considerations

• Be sure you include enough credits, you may need to add general, open electives to reach total credits needed to graduate

• Keep in mind admission requirements and plan to apply to the School of Science once requirements are met.
Tracking Degree Progress

AAR – Academic Advisement Report

Locate through one.iu.edu

Review your AAR with your advisor
Your Turn – Plan your 4 Years

• Use your preferred method – iGPS Degree Plan, Excel/Google Sheets, paper & pencil, other

• Meet with your Advisor regularly to review your tentative plan

• Stay flexible, plans change and that’s OK!

• Take advantage of co-curricular opportunities