CS Advising and QA

Hayes 111: October 18, 2023 (Wednesday) 4:30 PM – 5:30 PM

Hayes 108: October 19, 2023 (Thursday) 5:30 PM – 6:30 PM

General Advising Information

o **Advisors, Mentors, and Other Roles**

   o A&S College Advisors- 253 Central Hall, 419-372-8943

   o Department Faculty Mentors:
      Dr. Decker (A-F), Prof. Conway (G-N), Dr. Song (O-Z)

      Pre-Major (Pre-CS/Pre-SE): Dr. Kresman

   o Department Internship Coordinator: Dr. Rajaei

   o Department Undergraduate Coordinator: Dr. Dasigi

   o Department Chair: Dr. Lee

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Degree, Major, Specialization, Etc.

- Degree / Major
  - B.S. in Computer Science
  - B.A. in Computer Science
  - B.S. in Software Engineering

- Specializations
  - Business Systems (BS/BA in CS)
  - Digital Forensics (BS/BA in CS)
  - Computational Data Science (BS in CS)

- REMEMBER: Degree Requirements might vary by year
  - Check sheets
  - Course prerequisites or co-requisites: course maps or course descriptions

Important General Reminders

- MATH1220 → MATH1280, CS2010

- MATH1280 → MATH1340, MATH2220; MATH1280-co → CS2020

- MATH1340 → MATH1350 → MATH2470; MATH2220 → CS3350, CS 4120

- CS2010 → CS2020, CS2190; CS2020 → CS3350, CS 3210; CS 3350 → CS 4770*

- CS 2020 & CS2190 → CS3080, CS 3320; CS3350 → CS4120; CS3080 → CS4390

- CS 2020 → SE 3540 → SE 4550 & SE 4560 → SE 4770**

- CS 2020 → CS 4620 → SE 4770**

- CS 3320 & CS 3080-co → CS 4320; CS 3320 & (CS 3080/CS 4390-co) → CS 4330

- *CS 3350 + 4 more CS/SE 3000-level or higher → CS 4770

- **SE 4550 + SE 4560 + CS 4620 → SE 4770

- Courses at the end of long (4-semester) sequences highlighted above

Tips to Keep in Mind

o Take CS 2010, CS 2020, and CS 3350 ASAP and consecutively: Fall, Spring, Fall or Summer, Fall, Spring

o Take CS 2190 ASAP after CS 2010 if at all possible.

o We try to offer required courses every Fall and Spring.

o *There is at least 1 , but up to 4 four-semester chains in our degree programs (see specific courses below)!*

   o *1 in BACS* (CS 4390)*, 2 in BSSE* (CS 4390, SE 4770*)*, 3 in BSCS* (CS 4390, CS 4770, CS 4120)*, 4 in BSCS-DFS* (CS 4390, CS 4770, CS 4120, CS 4330)

           * Actually SE 4770 involves a FIVE-semester chain!

Legacy Matters

o For students who are on a catalog from <u>before Fall 2020</u>:
  - o The old CS 4540 (Software Engineering Project) has been replaced by the Capstone Experience course: CS 4770 for BSCS/BACS and SE 4770 for BSSE.
  - o NOBODY may receive credit for more than one of CS 4540, CS 4770, and SE 4770.

o For students who are on a catalog from <u>before Fall 2018</u>:
  - o If you have not taken CS 2170, take CS 2190 instead & request a sub.
  - o If you have not taken CS 3270, take CS 3080 instead & request a sub.

o The prefix for CS 3540, CS 4550, and CS 4560 has changed to SE, so they will now be under Software Engineering (SE).

o If you took CS 3270 and are now under a catalog that requires CS 3080 or 4390, you <u>CANNOT</u> get credit for 3080 NOR 4390!
  - o Ask me for substitutions for CS 3080 and for CS 4390.

Some SAMPLE Program Plans

We can go over some if there is interest & time.

If not, you can find the links at the bottom of:

https://www.bgsu.edu/arts-and-sciences/computer-science/undergraduate/bachelor-of-science-degree.html

https://www.bgsu.edu/arts-and-sciences/computer-science/undergraduate/bachelor-of-arts.html

https://www.bgsu.edu/arts-and-sciences/computer-science/undergraduate/bachelor-of-science-se-degree.html

Degree Audit

o DASD (Degree Audit and Schedule Designer)

    o Computer-generated document that checks your various degree requirements

Degree Audit - MyBGSU

Degree Audit - Request Audit

Degree Audit - Audit Results

Degree Audit – Course Requirements

OPT LIST OF COURSES IN PROGRESS (REG)

Earned: 12.00 Hours

FA17	CS 3800	3.00	REG	>I
FA17	CS 4620	3.00	REG	>I
FA17	HNRS4980	1.00	REG	>I
FA17	MDIA3520	3.00	REG	>I
FA17	PEG 2810	1.00	REG	>I
FA17	PEG 2910	1.00	REG	>I

MAJOR REQUIREMENTS (CS MAJOR)
MAJOR COURSES MAY NOT BE TAKEN S/U

☑ 1) REQUIRED COURSES - COMPLETED

FA14	CS 2010	3.00	A
SP15	CS 2020	3.00	A
SP15	CS 2170	3.00	A
SU15	CS 3000	3.00	A
FA15	CS 2900	1.00	S
FA15	CS 3270	3.00	C
SP16	CS 3060	3.00	B
SP16	CS 3540	3.00	A
FA16	CS 3350	3.00	B
SP17	CS 4120	3.00	A

☑ 2) PRACTICUM IN COMPUTER SCIENCE - TAKE 3 HOURS

SU16	CS 3900	3.00	S

Degree Audit – Additional Requirements

ADDITIONAL MAJOR REQUIREMENTS (CS OTHER2)
MAJOR COURSES MAY NOT BE TAKEN S/U

Earned: 27.00 Hours

Needs: 3.00 Hours

1) CALCULUS - COMLETED

SP15	MATH1310	5.00	A

2) ADDITIONAL MATHEMATICS - COMPLETED

SP16	MATH2220	3.00	A

3) FUNDAMENTAL-STATISTICS - COMPLETED

FA16	STAT2110	3.00	B	Processed As: BA 2110
SP17	STAT2120	3.00	A	Processed As: BA 2120

4) ADDITIONAL MATH - COMPLETED

FA15	MATH2320	5.00	B

5) ARTS AND SCIENCES LAB SCIENCE SEQUENCE - COMPLETED

FA16	BIOL2040H	4.00	B
SP17	BIOL2050H	4.00	B

6) ADDITIONAL ARTS AND SCIENCES MATH AND NATURAL SCIENCES
COURSES TO MEET 30 HOUR REQUIREMENT

MATH COURSE MUST BE BEYOND CALCULUS

Select From: MATH 2320 MATH 2330 MATH 2340 MATH 2350 MATH 2470 MATH 3130 MATH 3280

MATH 3320 MATH 3370 MATH 3390 MATH 3410 MATH 3420 MATH 4010 MATH 4020

MATH 4030 MATH 4040 MATH 4110 MATH 4140 MATH 4210 MATH 4250 MATH 4260

MATH 4270 MATH 4320 MATH 4340 MATH 4370 MATH 4390 MATH 4410 MATH 4420

MATH 4450 MATH 4470 MATH 4510 MATH 4520 MATH 4610 MATH 4650 MATH 4660

ADDITIONAL SCIENCE

Internships

o Required for BSCS and BSSE

o Why would I want to do this?

o What Companies? Where?

o How do I get one?

o How many internships should I do?

o When should I do them?

o CS 2900 and CS 3900

o Department Internship Coordinator: Dr. Rajaei/Dr. Lee

o Department Internship Policies & Procedures

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Where to Find Support

o Professor Office Hours *(listed on syllabus, Canvas)*

o College Academic Advisor *(name in MyBGSU/Navigate)*

o Department Faculty Mentor *(name in MyBGSU/Navigate)*

o Undergraduate Coordinator & Department Chair *(CS Department, Office Hours)*

o Student groups *(ACM & ACM-W Student Chapters)*

o Learning Commons

o Counseling Center and Accessibility Services

o DASD (Degree Audit and Schedule Designer)

Summer Courses

Summer 2024 Session 1 (First 6 weeks)

1. CS 1000, online: Tianyi Song
2. CS 1010, online: Ron Conway
3. CS 2010, online: Ron Conway
4. CS 2190, online: Tianyi Song
5. CS 5010, online: Ruinian Li
6. CS 6010, online: Ray Kresman

Summer 2024 Session 2 (Second 6 weeks)

1. CS 2020, online: Jadwiga Carlson
2. CS 2900 (2 cr. hr.), REMOTE, Tu,Th, 4:30PM: Venu Dasigi
3. CS 3000, online: Venu Dasigi
4. CS 3160, online: Jadwiga Carlson
5. CS 4/5630, online: Ray Kresman
6. CS 5015, online: Rob Green
7. CS 6800, online: Hassan Rajaei (Edge Computing)

The Accelerated MSCS Option

❖ Admissions Requirements

  ✓ By the start of the student's Accelerated status, they must have either:

        - 75 credit hours earned and an overall BGSU GPA of at least 3.2, or

        - 90 credit hours earned and an overall BGSU GPA of at least 3.0;

  ✓ A completed Accelerated Bachelor's to Master's Program Application;

  ✓ Official transcripts from all universities attended;

  ✓ At least one letter of recommendation from a full-time BGSU faculty member

○ Program Plan

  ✓ Undergraduate Accelerated Status (limited to 9 credits maximum)

        - Any 5000 level CS course whose 4000 level version counts towards requirements for the BA/BS.

  ✓ Graduate Accelerated Status

https://www.bgsu.edu/graduate/graduate-programs/accelerated-bachelors-to-masters-programs/accelerated-ba-bs-to-ms-in-computer-science-program-policy

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Questions?

Some Sequencing Options for BSCS

o Take CS 2010, CS 2020, and CS 3350 ASAP and consecutively:

    o Fall, Spring, Fall or maybe: Summer, Fall, Spring

o An aggressive 4-semester option (4 MATH/CS courses once):
(CS 2010 + MATH 1280) → (CS 2020 + CS 2190 + MATH 2220 + MATH 1340) → (CS 3350 + CS 3080 + MATH 1350) → (CS 4120 + CS 4390 + CS 4770 + MATH 2470)

o A 5-semester options (3 MATH/CS courses twice):
(CS 2010 + MATH 1280) → (CS 2020 + CS 2190 + MATH 2220) → (CS 3350 + CS 3080 + MATH 1340) → (CS 4120 / CS 4390 + MATH 1350) + (CS 4390 / CS 4120 + CS 4770 + MATH 2470)

More Sequencing Options (Continued)

o Another 5-semester option (3 MATH/CS courses twice)
(CS 2010 + MATH 1280) → (CS 2020 + CS 2190 + MATH 2220) → (CS 3350 + MATH 1340) → (CS 4120 + CS 3080 + MATH 1350) + (CS 4390 + CS 4770 + MATH 2470)

o A 6-semester option (2 MATH/CS courses):
(CS 2010 + MATH 1280) → (CS 2020 + MATH 2220) → (CS 2190 + CS 3350) → (CS 3080 + MATH 1340) → (CS 4120/4390 + MATH 1350) + (CS 4390/4120 + CS 4770 + MATH 2470)

o You need to take CS 2900 preferably before the first summer and strive to take CS 3900 during the second/third summer; take CS 4770 ASAP after the prerequisites are met.