User Interface

for the

Proposed New Features

of

TrackMyDegree

New Features

1. Can the system say exactly what the student is missing

Interpretation (This is the primary interpretation and subject to change upon discussion with stakeholder):

- The system should analyse the student's current record (courses taken, in-progress, credits earned, major/minor requirements, electives, GPA, etc.) and determine the exact items still required for them to complete their degree.
- It may produce a checklist or "missing items" view: e.g., "You still need 6 credits of upper-level electives," or "You haven't taken STAT 301 (prereq for major)."
- The key is accuracy and specificity: not just "You're behind," but "Here are the specific requirements, courses or credits you haven't fulfilled yet."
- This likely involves mapping the programme curriculum (catalog year) + the student transcript + any transfer/waiver logic.

2. Have the system do an unofficial audit for the student

Interpretation (This is the primary interpretation and subject to change upon discussion with stakeholder):

- This feature is very closely tied to #1 but slightly different: "audit" suggests generating a formalised report (even if labelled "unofficial") that verifies the student's status relative to their programme.
- In higher-ed systems, "degree audit" means: check all curriculum requirements, check what's been completed/in-progress, mark fulfilled vs unfulfilled.
- So here the system will automatically produce such an audit for the student, showing progress and outstanding items.

3. Produce a sequence for approval by Co-op Directors, respecting Co-op regulations and requirements

Interpretation (This is the primary interpretation and subject to change upon discussion with stakeholder):

- This feature is about building a course/term sequence (a plan of what the student will take in upcoming semesters/terms) that meets both academic degree requirements *and* specific co-operative education (co-op) programme regulations.
- "Sequence" means: term-by-term scheduling or roadmap (e.g., Fall 2025: Course A, Course B; Winter 2026: Co-op Term; Spring 2026: Course C; etc.).

- It must be generated (by the system) or at least supported, and then approved by Co-op Directors (those overseeing co-op programmes).

- “Respecting Co-op regulations and requirements” implies business logic around the co-op: e.g., co-op term(s) must occur after certain coursework or before certain deadlines, minimum GPA for participation, required documentation, number of work terms allowed, etc.

4. It would be nice if advisors had our own class builder so we could see scheduling conflicts instead of going through each schedule one by one.

Interpretation (This is the primary interpretation and subject to change upon discussion with stakeholder):

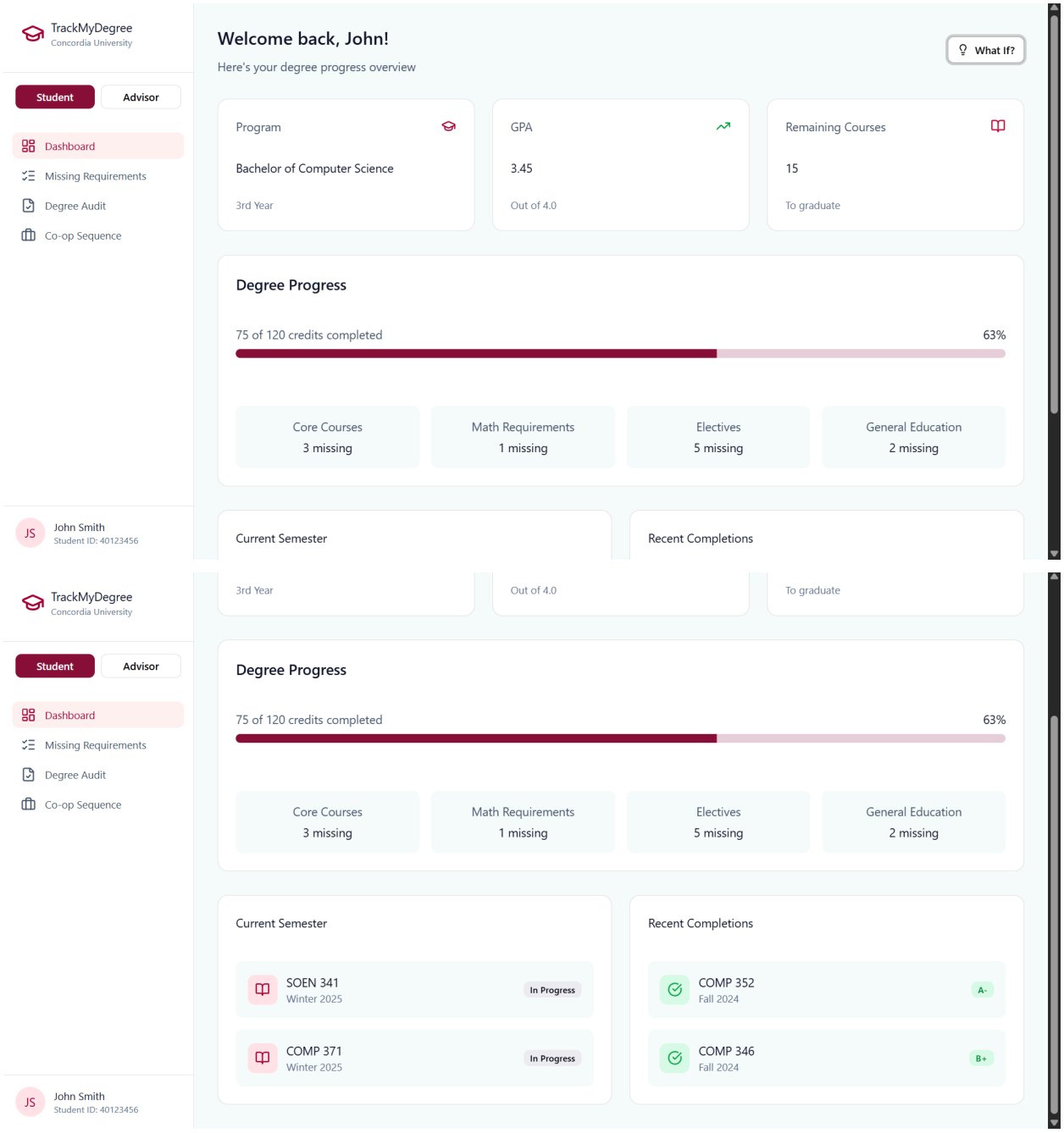
- This feature is oriented toward advisors, giving them a tool (class builder) to construct proposed schedules for students and see scheduling conflicts visually, rather than manually checking multiple schedules.

- Basically UI where you pick courses (for upcoming term(s)), maybe drag-and-drop sections (lecture/lab), view student’s existing registrations/planned registration, and the system flags conflicts (time overlaps, prerequisites unmet, seat availability).

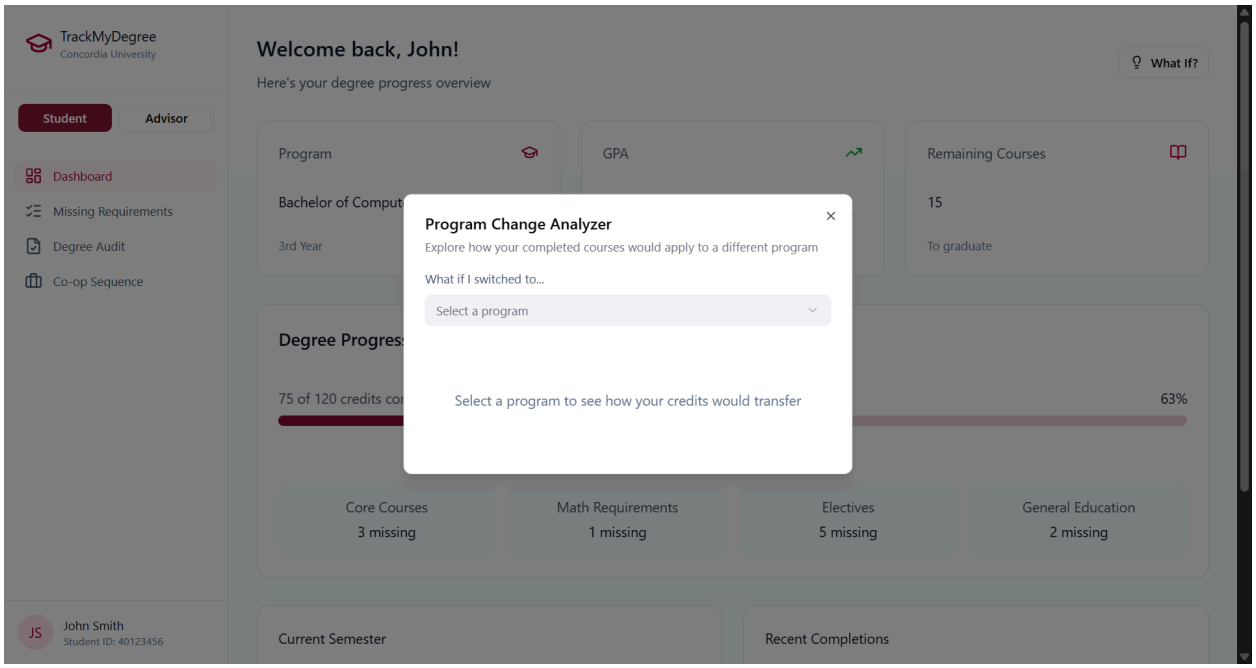
- So the tool is supporting the advisor’s workflow: building schedules, iterating quickly, maybe visualizing options, validating the plan before the student registers.

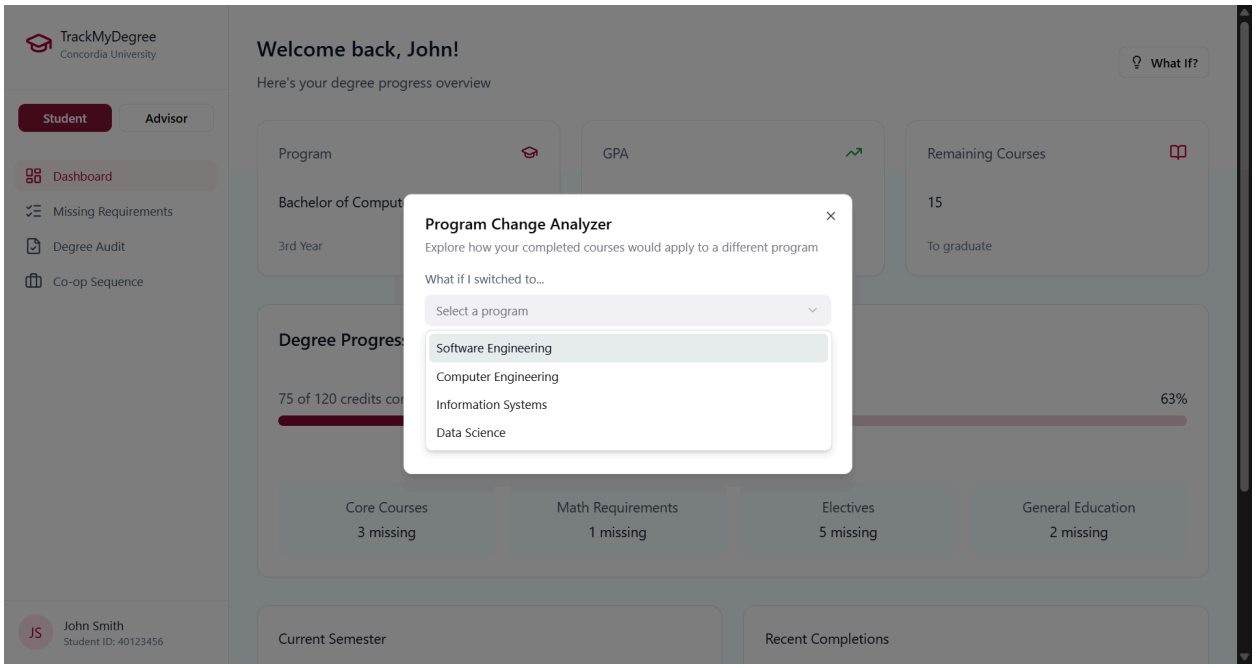
Laptop/Desktop view

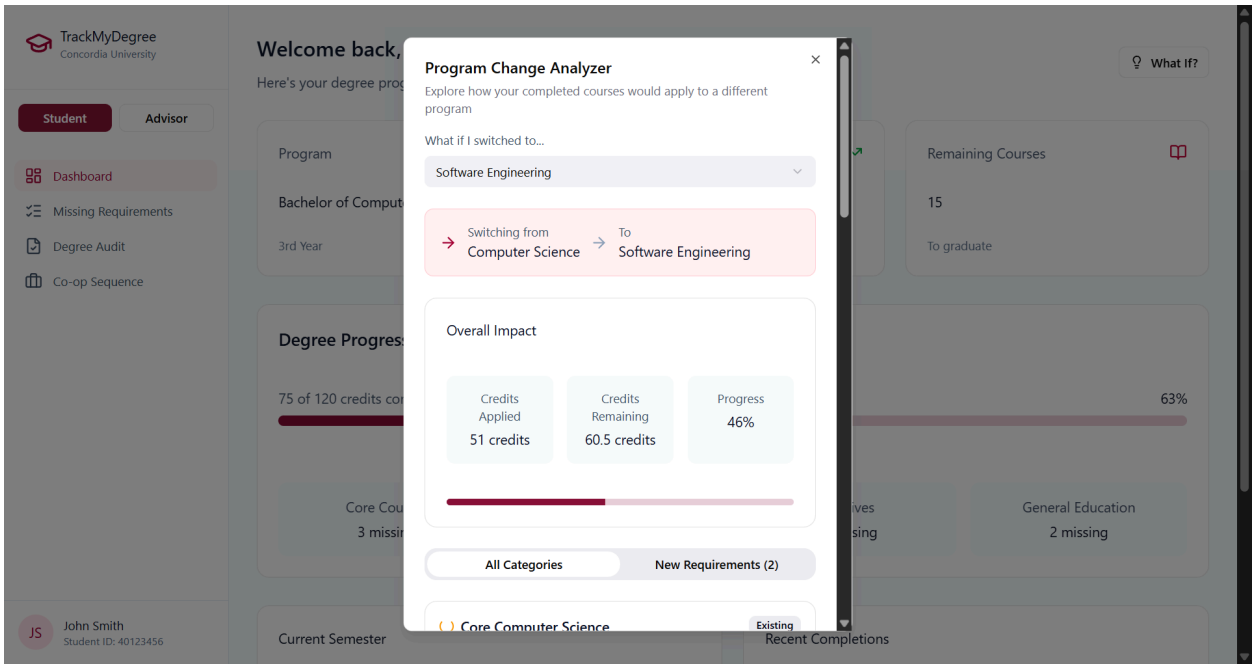
Student Dashboard - When logged in as student, this Dashboard is displayed at the beginning.

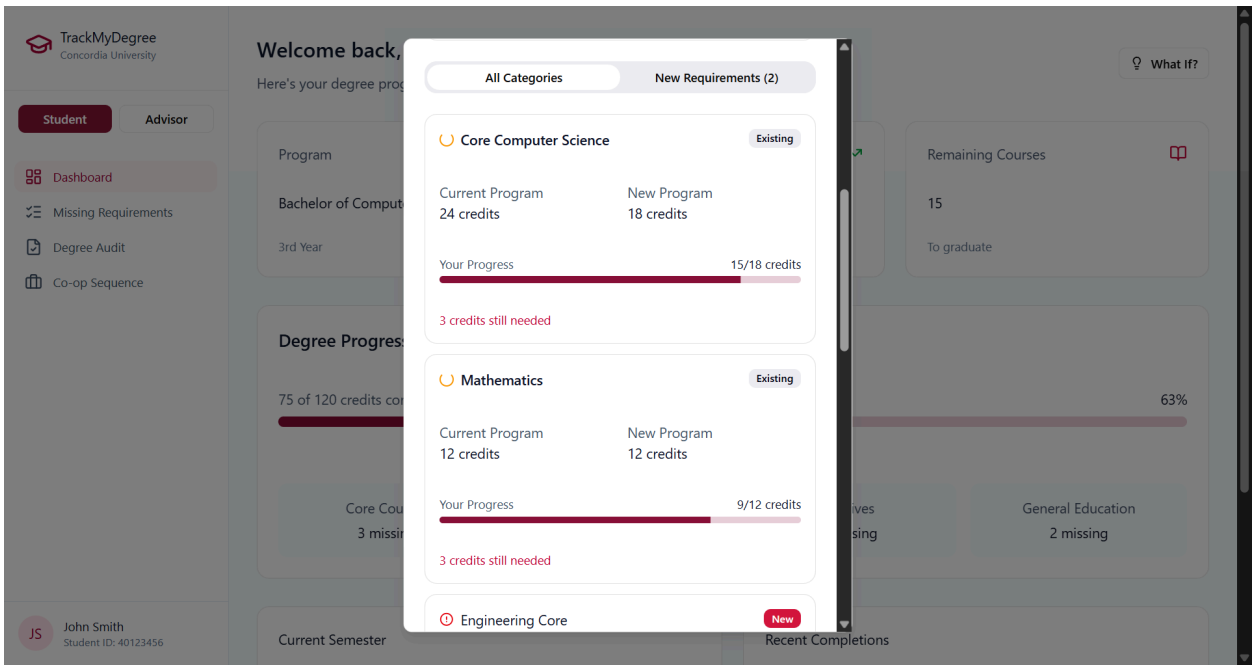


“What If” Scenario - When clicked, the student gets an opportunity to compare their progress in other programs, in case they are planning to change their majors.






TrackMyDegree
Concordia University
Student
Advisor
Dashboard
Missing Requirements
Degree Audit
Co-op Sequence
John Smith
Student ID: 40123456
Welcome back,
Here's your degree prog
What If?
Program
Bachelor of Comput
3rd Year
Remaining Courses
15
To graduate
Degree Progres
75 of 120 credits co
63%
Core Cou
3 missi
ives
sing
General Education
2 missing
Current Semester
Recent Completions
Program Change Analyzer
Explore how your completed courses would apply to a different program
What if I switched to...
Software Engineering
Switching from
Computer Science
To
Software Engineering
Overall Impact
Credits Applied
51 credits
Credits Remaining
60.5 credits
Progress
46%
All Categories
New Requirements (2)
Core Computer Science
Existing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75 of 120 credits co
63%
Core Cou
3 missi
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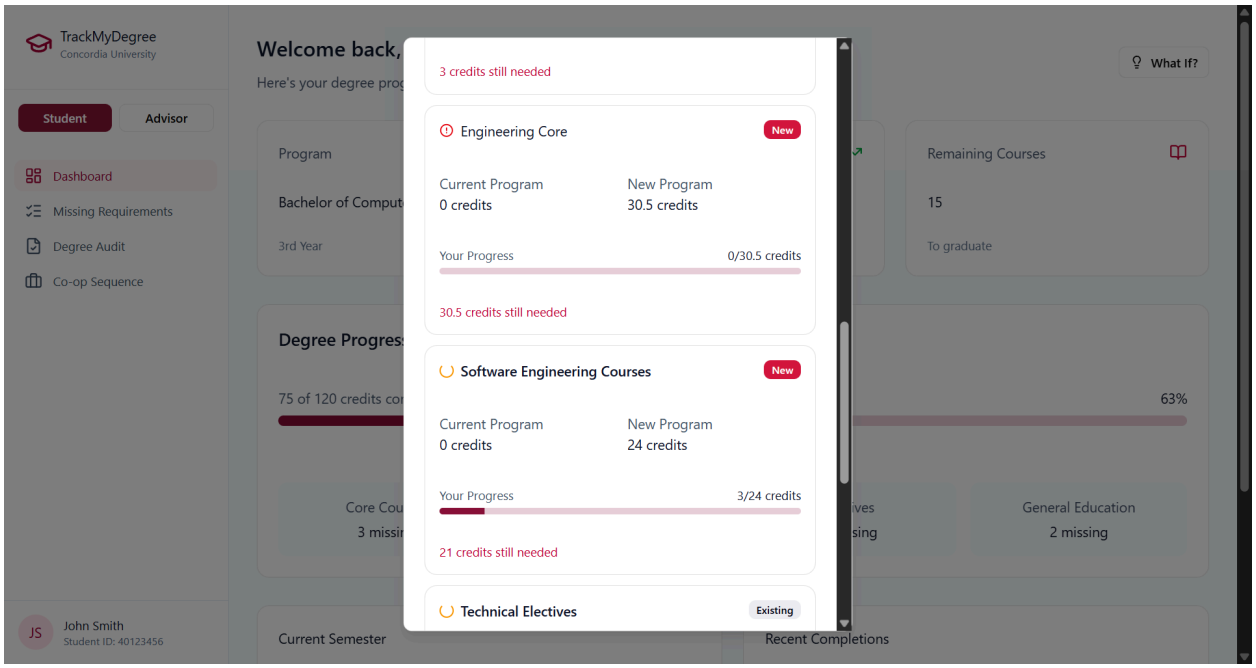
sing
General Education
2 missing
Current Semester
Recent Completions
All Categories
New Requirements (2)
Core Computer Science
Existing
Current Program
24 credits
New Program
18 credits
Your Progress
15/18 credits
3 credits still needed
Mathematics
Existing
Current Program
12 credits
New Program
12 credits
Your Progress
9/12 credits
3 credits still needed
Engineering Core
New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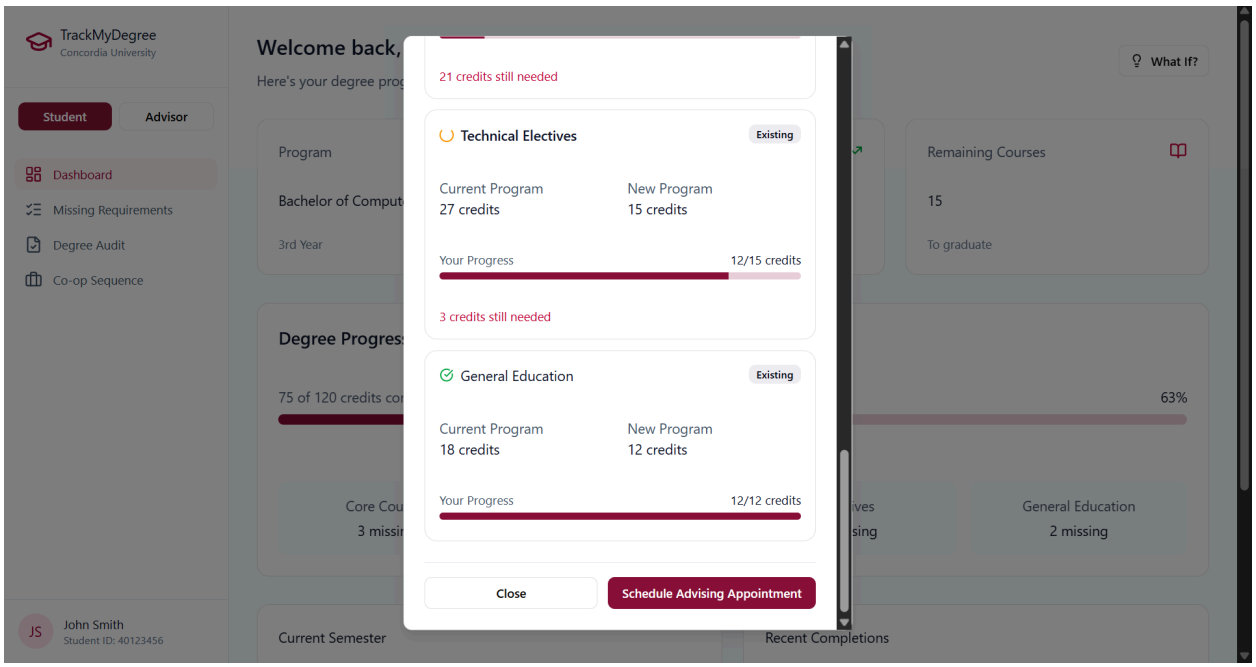
63%
Core Cou
3 missi
ives
sing
General Education
2 missing
Current Semester
Recent Completions
3 credits still needed
Engineering Core
New
Current Program
0 credits
New Program
30.5 credits
Your Progress
0/30.5 credits
30.5 credits still needed
Software Engineering Courses
New
Current Program
0 credits
New Program
24 credits
Your Progress
3/24 credits
21 credits still needed
Technical Electives
Existing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Core Cou
3 missi
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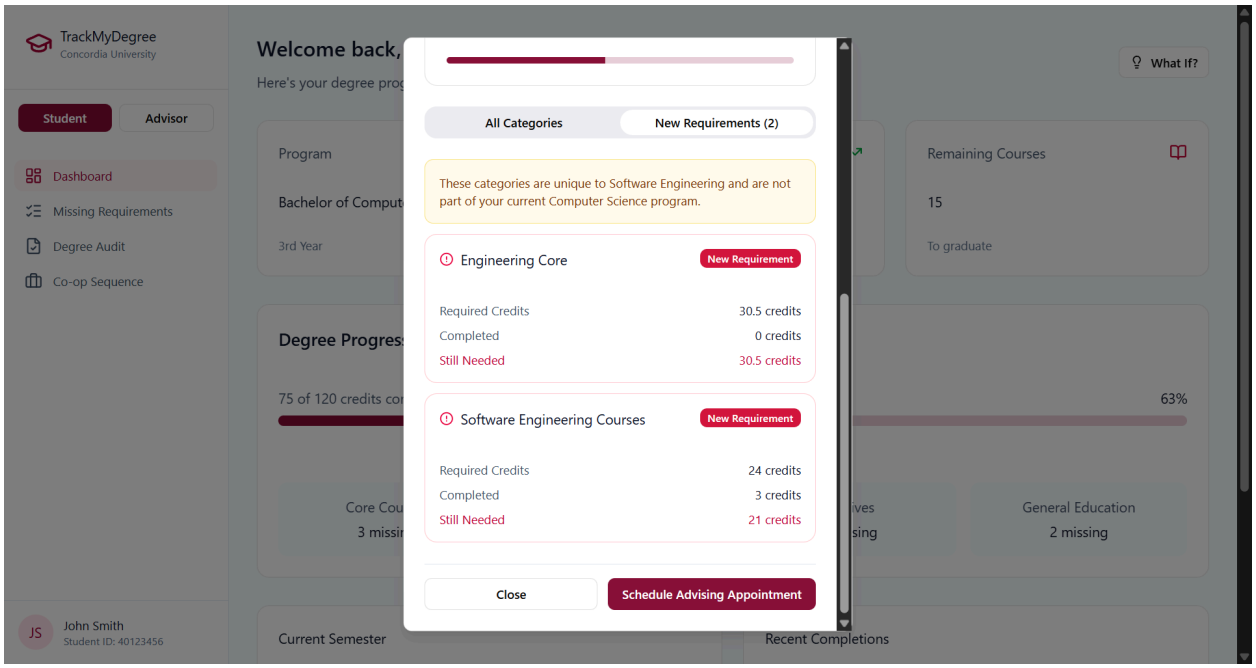
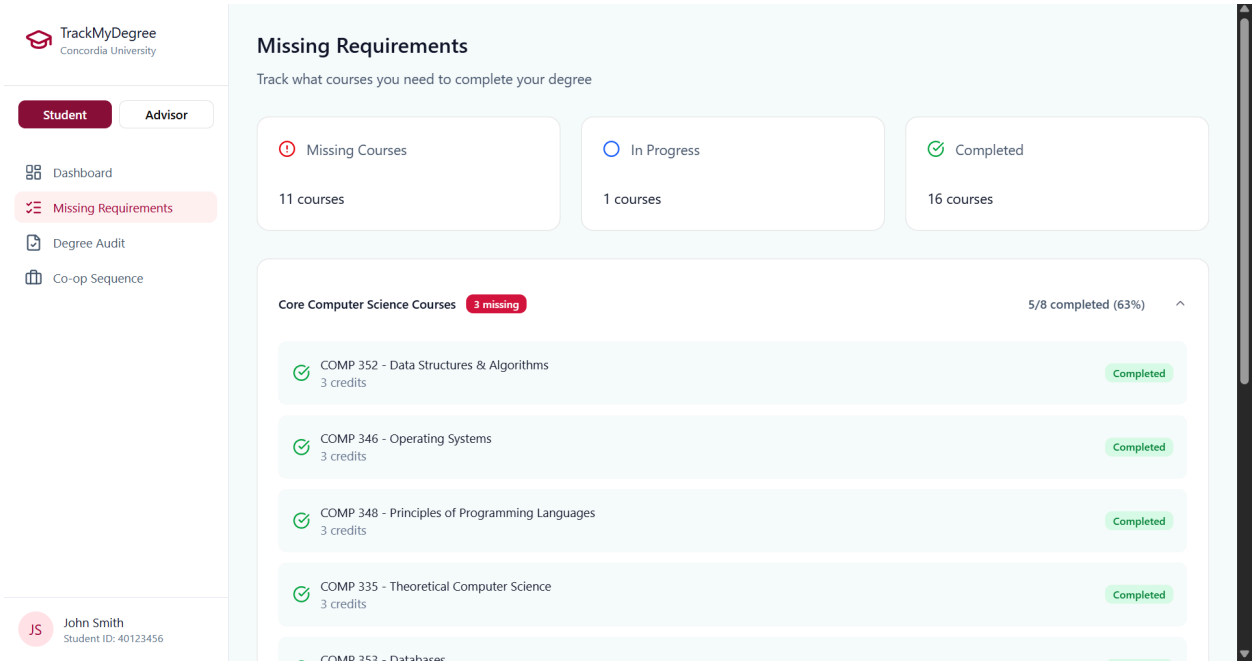
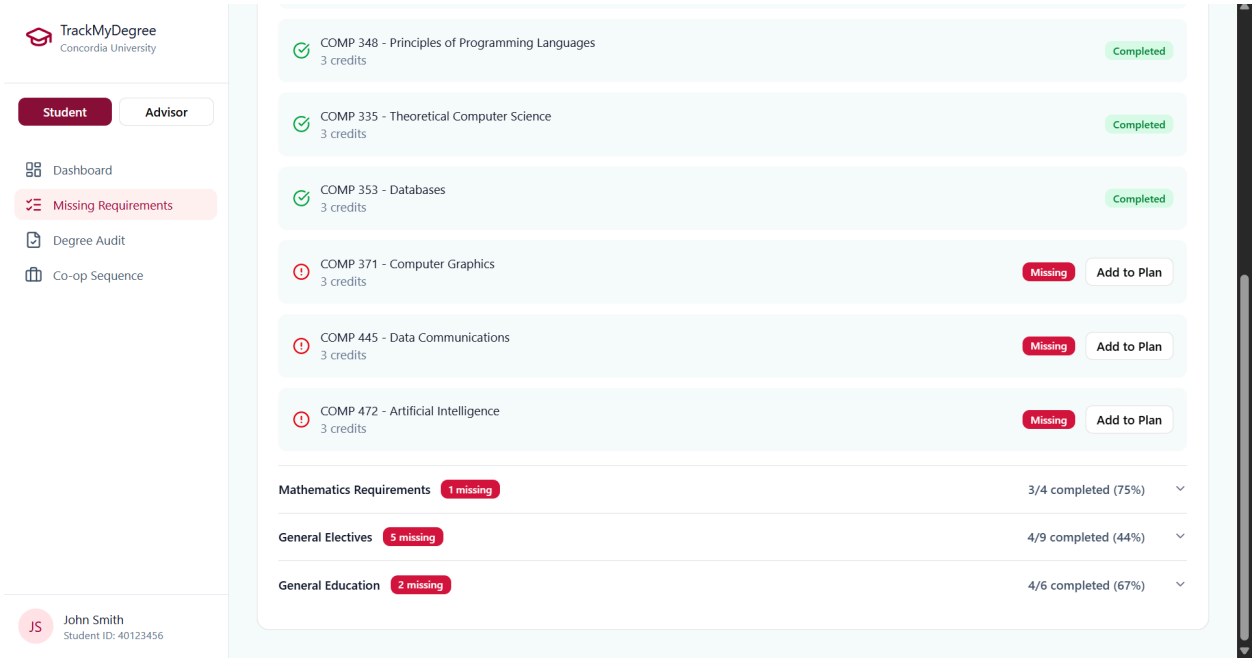
sing
General Education
2 missing
Current Semester
Recent Completions
21 credits still needed
Technical Electives
Existing
Current Program
27 credits
New Program
15 credits
Your Progress
12/15 credits
3 credits still needed
General Education
Existing
Current Program
18 credits
New Program
12 credits
Your Progress
12/12 credits
Close
Schedule Advising Appointment



Feature 1 (Missing Requirements Page) - In this page, the student gets to see the courses/objectives that are still missing for them to finish their program. Courses are divided based on different categories.




TrackMyDegree
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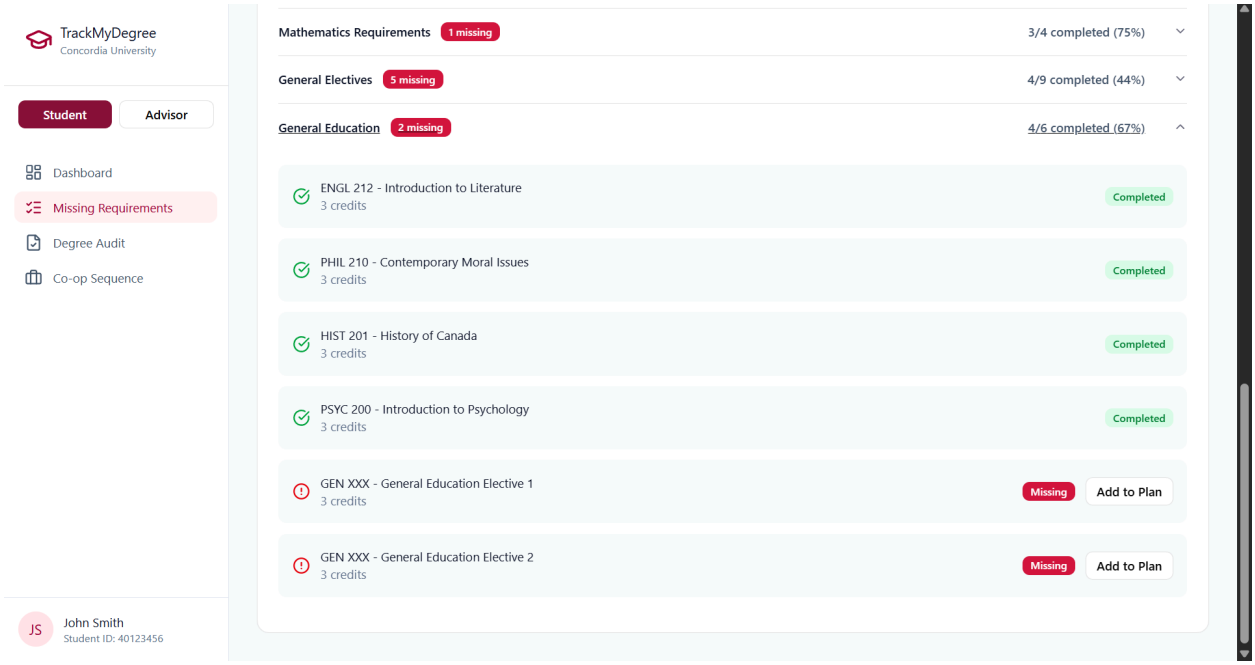
Missing Requirements
Degree Audit
Co-op Sequence
JS
John Smith
Student ID: 40123456
COMP 348 - Principles of Programming Languages
3 credits
Completed
COMP 335 - Theoretical Computer Science
3 credits
Completed
COMP 353 - Databases
3 credits
Completed
COMP 371 - Computer Graphics
3 credits
Missing
Add to Plan
COMP 445 - Data Communications
3 credits
Missing
Add to Plan
COMP 472 - Artificial Intelligence
3 credits
Missing
Add to Plan
Mathematics Requirements
1 missing
3/4 completed (75%)
General Electives
5 missing
4/9 completed (44%)
General Education
2 missing
4/6 completed (67%)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Missing Requirements
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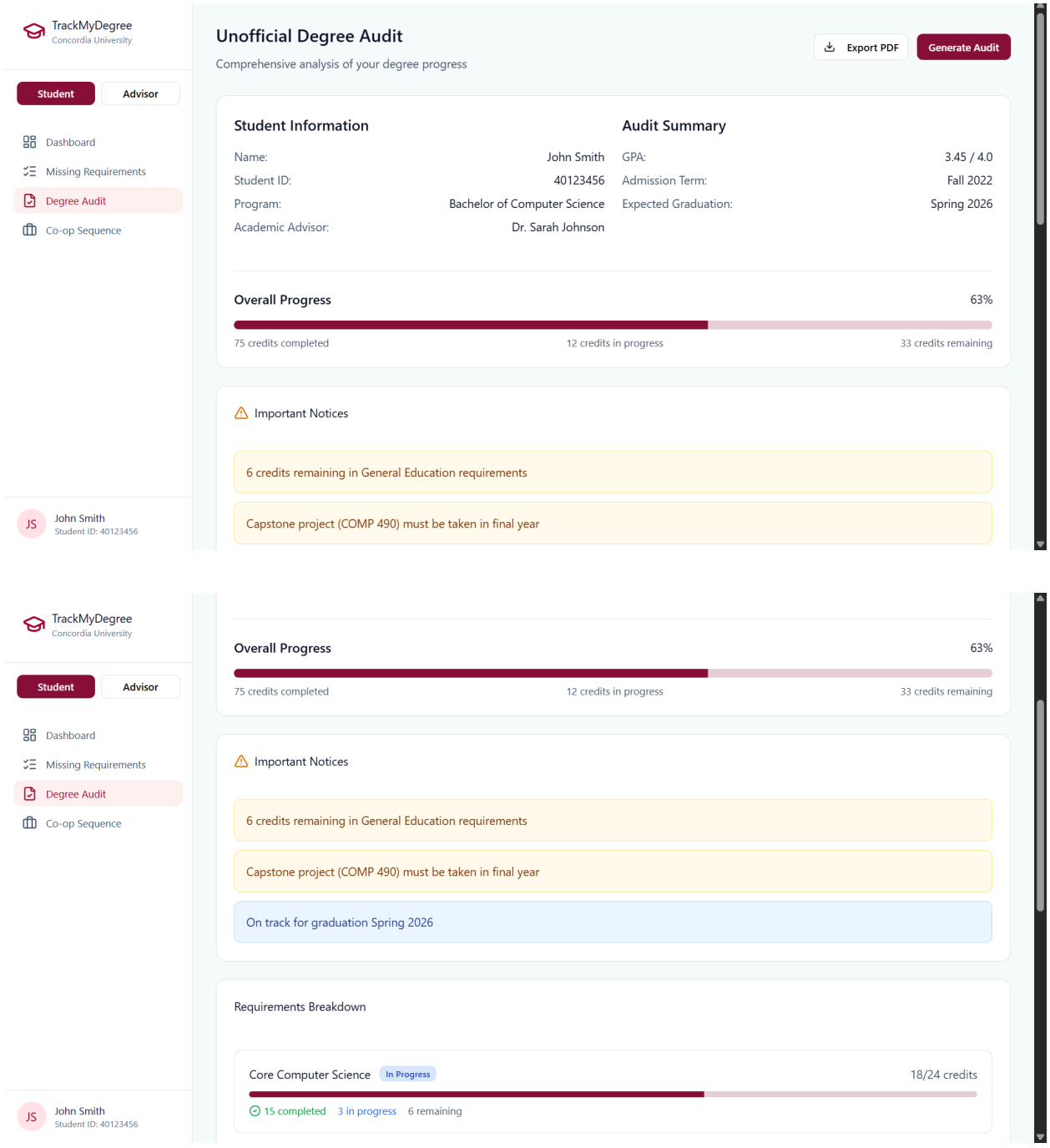
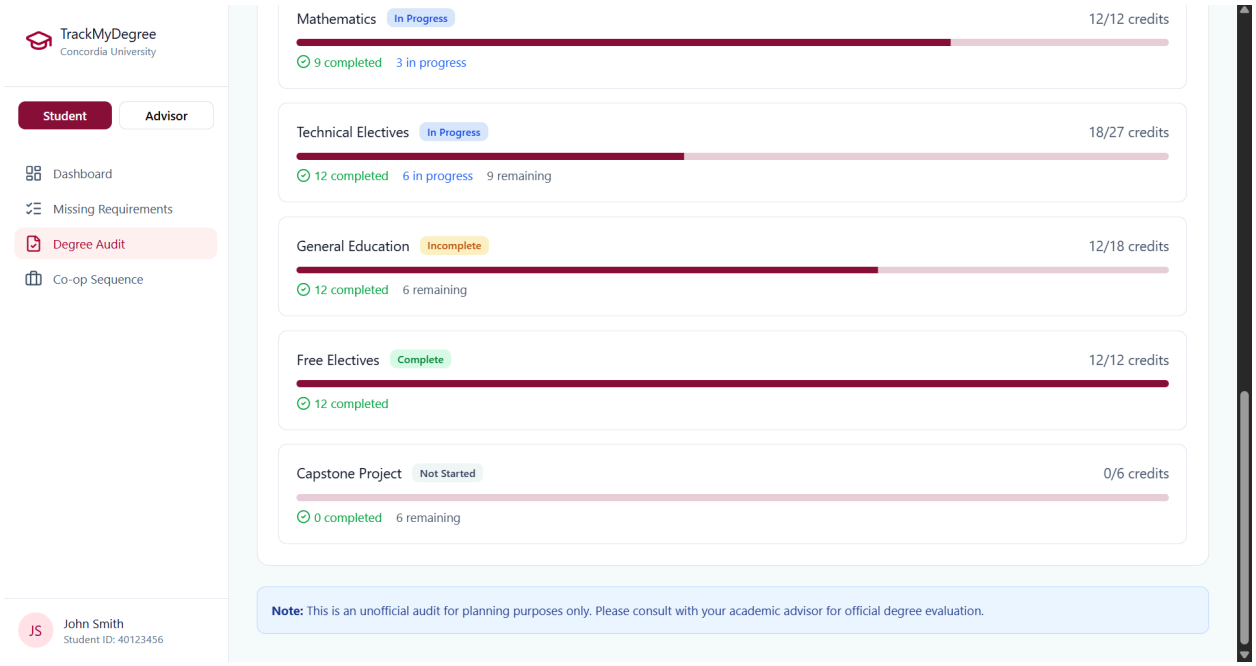
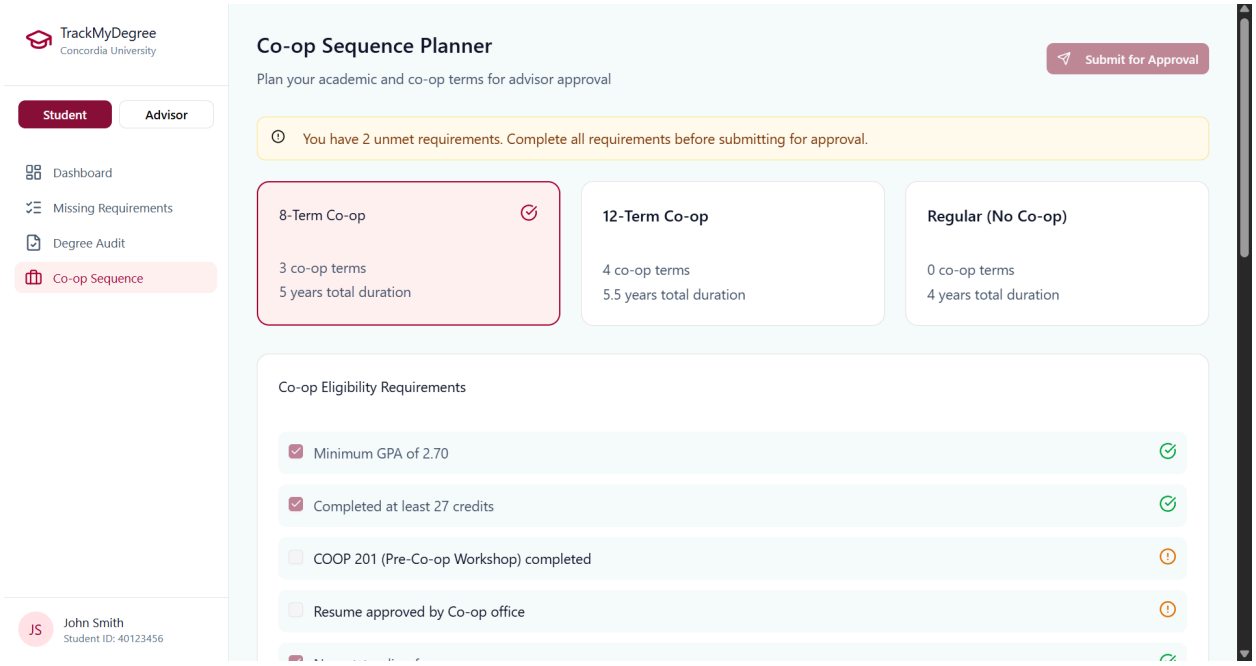
John Smith
Student ID: 40123456
Mathematics Requirements
1 missing
3/4 completed (75%)
General Electives
5 missing
4/9 completed (44%)
General Education
2 missing
4/6 completed (67%)
ENGL 212 - Introduction to Literature
3 credits
Completed
PHIL 210 - Contemporary Moral Issues
3 credits
Completed
HIST 201 - History of Canada
3 credits
Completed
PSYC 200 - Introduction to Psychology
3 credits
Completed
GEN XXX - General Education Elective 1
3 credits
Missing
Add to Plan
GEN XXX - General Education Elective 2
3 credits
Missing
Add to Plan

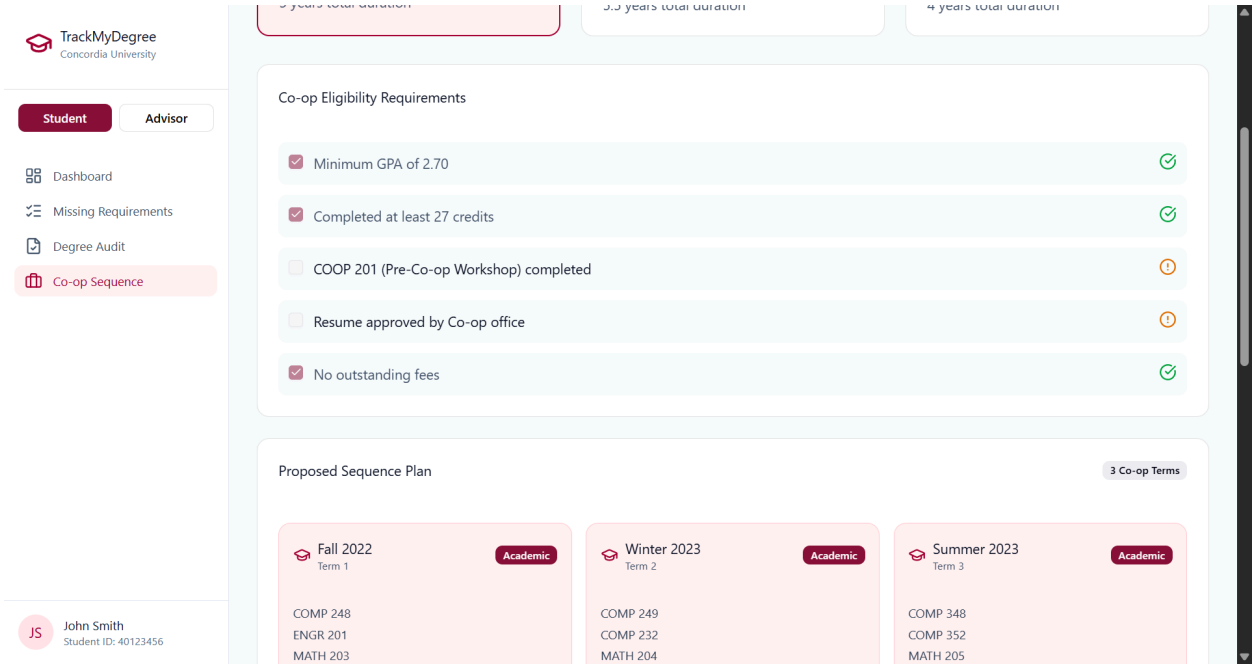
Feature 2 (Degree Audit Page) - In this page, the student gets to see a more comprehensive view of credits completed/remaining per category of courses. This is generated automatically and unofficially.





Feature 3 (Co-op Sequence Page) - In this page, the student gets to plan their coop sequence themselves and then submit it to their advisor for approval. It also provides additional info regarding co-op in general.




TrackMyDegree
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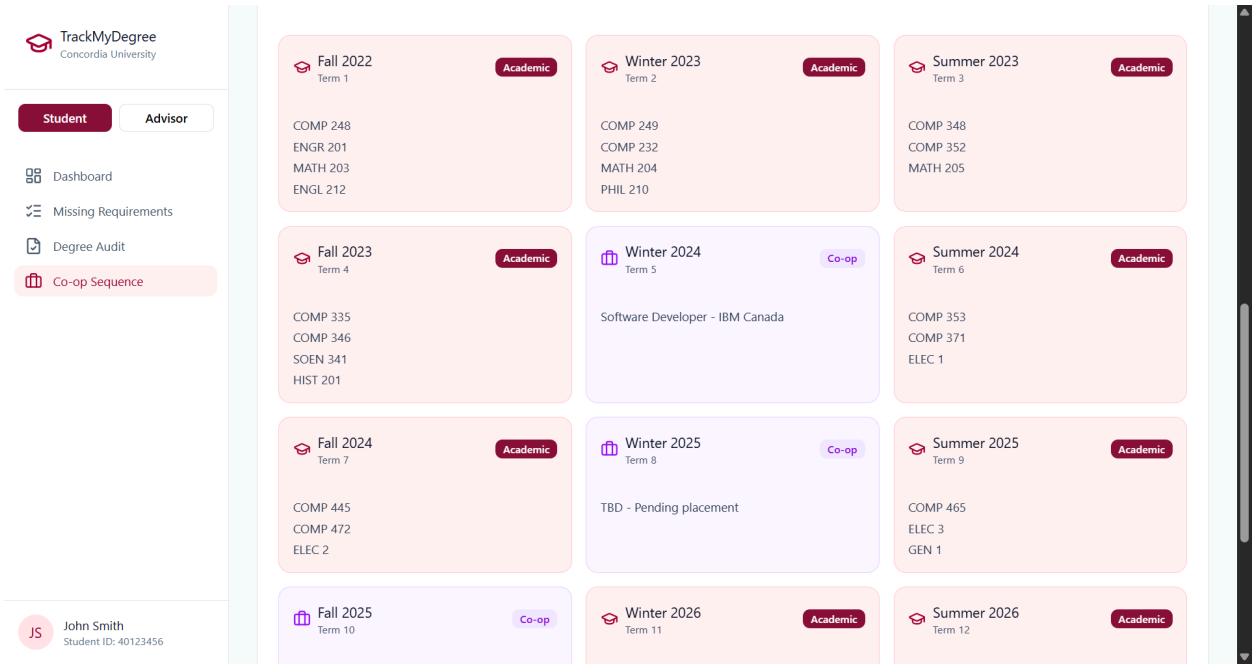
Missing Requirements
Degree Audit
Co-op Sequence
John Smith
Student ID: 40123456
Co-op Eligibility Requirements
Minimum GPA of 2.70
Completed at least 27 credits
COOP 201 (Pre-Co-op Workshop) completed
Resume approved by Co-op office
No outstanding fees
Proposed Sequence Plan
3 Co-op Terms
Fall 2022
Term 1
Academic
COMP 248
ENGR 201
MATH 203
Winter 2023
Term 2
Academic
COMP 249
COMP 232
MATH 204
Summer 2023
Term 3
Academic
COMP 348
COMP 352
MATH 205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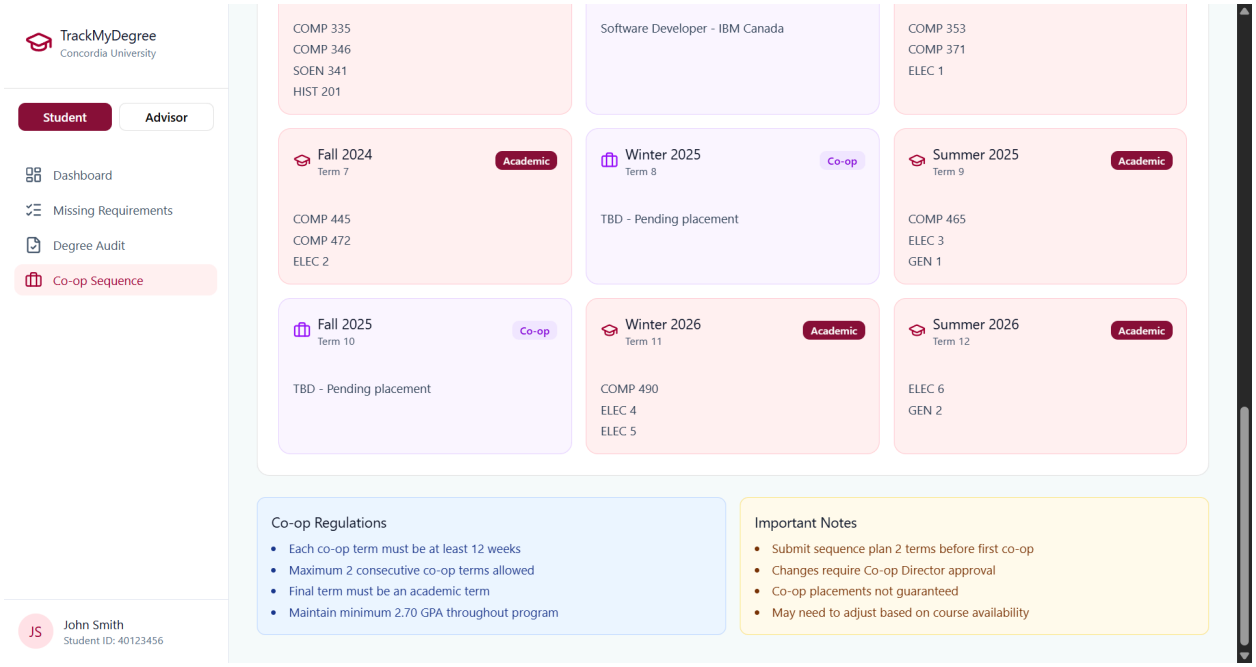
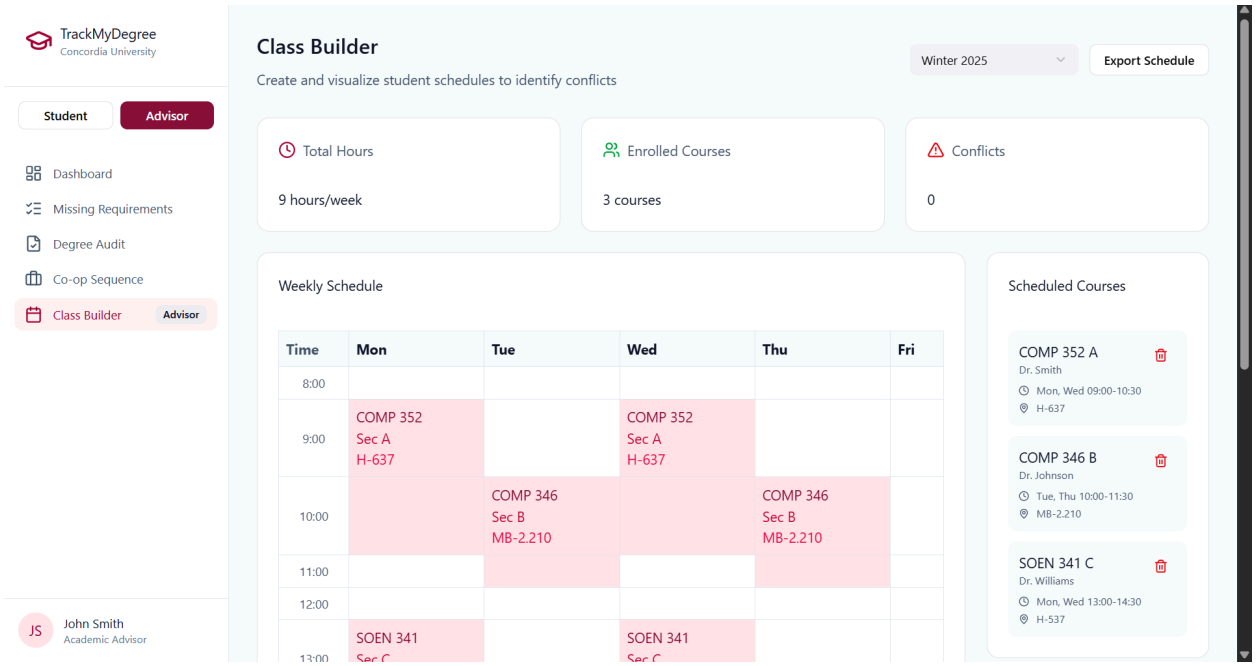
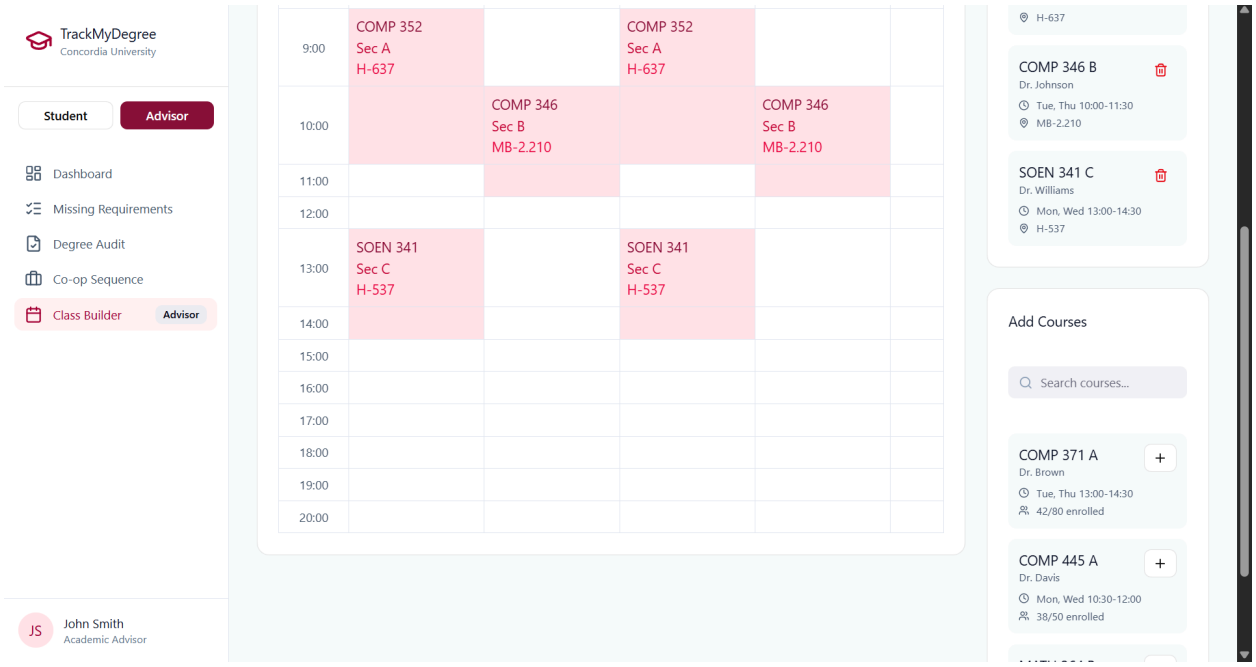
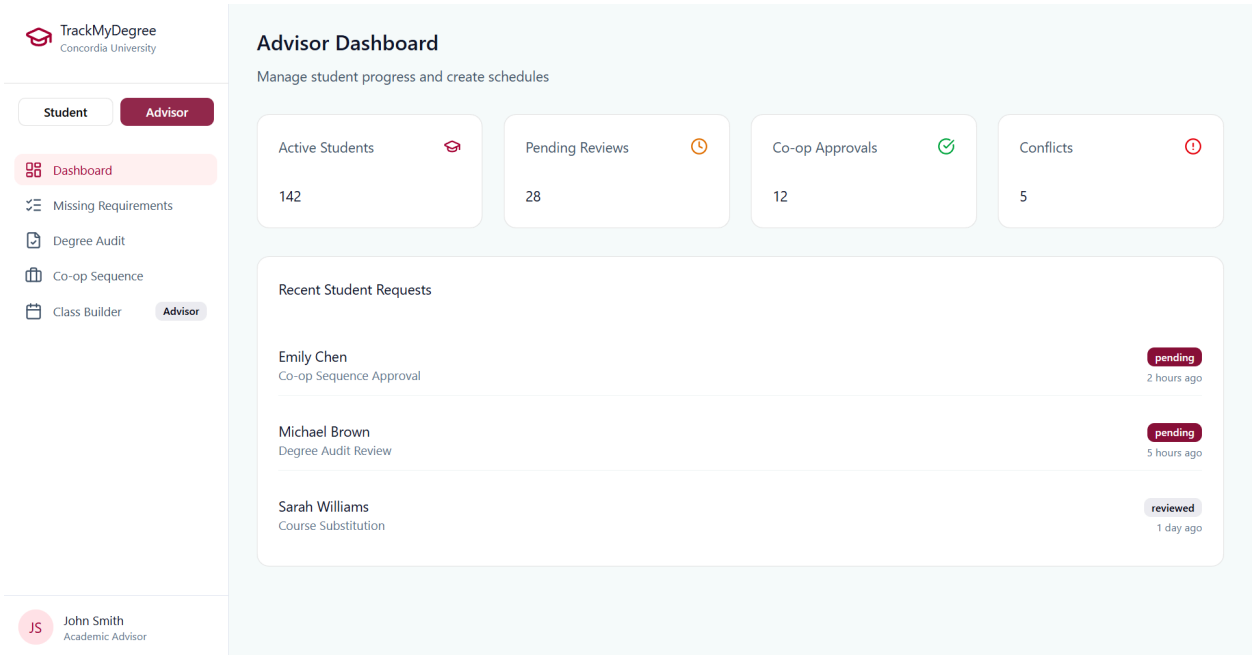
John Smith
Student ID: 40123456
Fall 2022
Term 1
Academic
COMP 248
ENGR 201
MATH 203
ENGL 212
Winter 2023
Term 2
Academic
COMP 249
COMP 232
MATH 204
PHIL 210
Summer 2023
Term 3
Academic
COMP 348
COMP 352
MATH 205
Fall 2023
Term 4
Academic
COMP 335
COMP 346
SOEN 341
HIST 201
Winter 2024
Term 5
Co-op
Software Developer - IBM Canada
Summer 2024
Term 6
Academic
COMP 353
COMP 371
ELEC 1
Fall 2024
Term 7
Academic
COMP 445
COMP 472
ELEC 2
Winter 2025
Term 8
Co-op
TBD - Pending placement
Summer 2025
Term 9
Academic
COMP 465
ELEC 3
GEN 1
Fall 2025
Term 10
Co-op
Winter 2026
Term 11
Academic
Summer 2026
Term 12
Academic



Feature 4 (Advisor Class Builder Page) - In this page, the Advisor gets to see scheduling Conflicts visually in a class schedule builder instead of going through each schedule one by one.





Advisor Dashboard - When logged in as an advisor, this Dashboard is displayed at the beginning.