

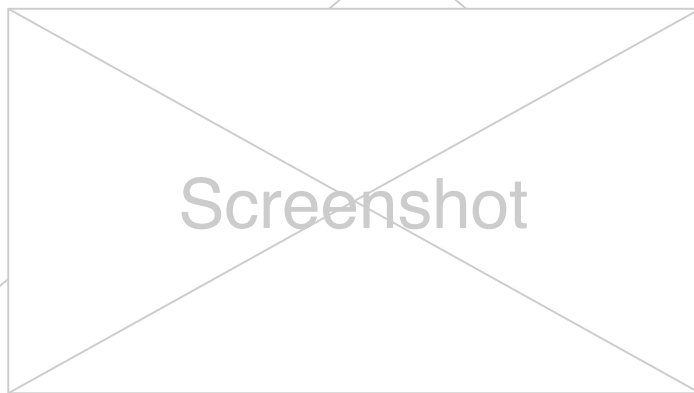
Academic Schedule Builder	Semester Schedule Builder	Course List DB	
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Project Description

The purpose of this UofR Software Engineering Capstone Project is to enhance the functionality of UofR existing Visual Schedule Builder and helping future students course selection easier.

This project will be focused on the students, the building up of their classes schedule. The opinions from the professors of different faculty and the students are mainly to be considering. The Visual Schedule Builder Plus will be designed for students into the different faculty. Then through the faculty, according to the importance and limitations of classes, the Visual Schedule Builder Plus will recommend the courses to take for the students in the different semesters. After the students have chosen and built up their desired time schedule, the Visual Schedule Builder Plus can also give out some advice on their time table to help them for better time planning.

A good design of the Visual Schedule Builder Plus that will help to organize and build up the time table wisely. It is to solve the problems such as considering what courses to take first to be able to graduate in time, knowing the different limitations of each course(for example, the prerequisites in order to take the class, and when it offers, or the credit hours requires), as well to be aware of which elective classes to take that will benefit them in the future based on their faculty. The enhancing of the functionality for U of R existing Visual Schedule Builder will help the students to select the courses easier.



Update log

v1.0
- main.html page creation
- database creation
2020-10-28

v1.1
- main.html dead, rescuing...
2020-10-29

v1.1.1
- We give up, bye
2020-10-30

Team Info



Name: Xinyu Liu

SID: 2003*****

Position: Scrum Master

Name: Jingkan Yang

SID: 2003*****

Position: Developer

Name: Xia Hua

SID: 2003*****

Position: Developer

Name: Priscilla Chua

SID: 2003*****

Position: Business Analyst

Team Description:

Our goal is to create a user friendly, interactive schedule builder.

Contact Us

GitHub:
https://github.com/yang242j/VSB_Plus

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Visual Schedule Builder Plus

Academic Schedule Builder	Semester Schedule Builder	Course List DB	
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Default Schedule

Term 1:
Fall 2020

CHEM 104

ENGG 123

ENGG 140

MATH 110

MATH 122

15 Credit Hours

No Project

Many Quiz

Term 2:
Winter 2021

CS 110

ENGG 100

ENGL 100

MATH 111

PHYS 119

15 Credit Hours

Essay

Many Quiz

Term 3:
Fall 2021

CS 115

ENEL 280

ENEV 223

MATH 217

PHYS 112

15 Credit Hours

No Project

Many Quiz

Term 4:
Winter 2022

CS 210

ENEL 281

ENEL 282

MATH 213

STAT 289

15 Credit Hours

No Project

Many Quiz

Term 5:
Fall 2022

CS 215

CS 340

ENEL 384

ENSE 352

ENSE 374

15 Credit Hours

No Project

Many Quiz

Term 6:
Spring 2023

BUS 260

ECON 201

Approve E.

9 Credit Hours

No Project

Many Quiz

Term 6.5:
Summer 2023

ENEL 380

ENSE 353

6 Credit Hours

No Project

Many Quiz

Term 7:
Winter 2024

ENEL 387

ENSE 470

ENSE 471

ENSE 475

Approve E.

15 Credit Hours

No Project

Many Quiz

Term 8:
Fall 2024

ENGG 303

ENSE 400

ENSE 472

Approve E.

Approve E.

15 Credit Hours

Capstone Project

Term 9:
Winter 2025

ENGG 401

ENSE 350

ENSE 477

Approve E.

Approve E.

15 Credit Hours

Capstone Project

Courses Completed

CHEM 104

ENGG 123

ENGG 140

MATH 110

MATH 122

CS 110

ENGG 100

ENGL 100

MATH 111

PHYS 119

CS 115

ENEL 280

ENEV 223

MATH 217

PHYS 112

CS 210

ENEL 281

ENEL 282

MATH 213

STAT 289

CS 215

CS 340

ENEL 384

ENSE 352

ENSE 374

BUS 260

ECON 201

Approve E.

ENEL 380

ENSE 353

ENEL 387

ENSE 470

ENSE 471

ENSE 475

Approve E.

ENGG 303

ENSE 400

ENSE 472

Approve E.

Approve E.

ENGG 401

ENSE 350

ENSE 477

Approve E.

Approve E

Courses To Take

EMPTY



Visual Schedule Builder Plus

Academic Schedule Builder	Semester Schedule Builder	Course List DB	
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Default Schedule

Term 1:
Fall 2020

CHEM 104

ENGG 123

MATH 110

MATH 122

12 Credit Hours

No Project

Many Quiz

Term 2:
Winter 2021

EMPTY

0 Credit Hours

Break

Term 3:
Fall 2021

0 Credit Hours

Courses Completed

CHEM 104

ENGG 123

MATH 110

MATH 122

Notes: (NOT part of design)

- 1) Academic Schedule Builder is only a simulator, which mean, anyone can play with it even not a currently registered student.
- 2) If this person decide to take a break at certain semester, drag EMPTY to that semester to represent the break. Next term (3) will show up. EMPTY course came with the Break label.
- 3) Each course has several labels, the grey one, which represent this course's identity.
- 4) New labels and new courses can be added in the future into database through back end.
- 5) Courses To Take will only show up the courses can be take based on Courses Completed.
- 6) Approved Elective includes Technical Elective, Open elective, Social science elective, and Natural Science elective.
- 7) Elective courses can only be decide, choose, in Semester Schedule Builder. Because elective courses are vary depend on department decision.
- 8) Semester Schedule Builder can only simulate current semester and next semester. Because SSB will display more details of selected courses which are only be posted before the new semester.
- 9) The UofR log is designed as the home button link to page-1

Courses To Take

ENGG 140

CS 110

ENGG 100

ENGL 100

MATH 111

EMPTY



Visual Schedule Builder Plus

Academic Schedule Builder	Semester Schedule Builder	Course List DB	
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Term 3: Fall 2021 ▾

ENGG 140

CS 110

ENGG 100

ENGL 100

ENGG 140
Labels: Quizzes, Equations, Physics
Descriptions: *****

CS 110
Labels: Programming, C++, Basic CS
Descriptions: *****

ENGG 100
Labels: 3D Graphic, Basic Engineering, Time consuming
Descriptions: *****

ENGL 100
Labels: Literature, Essays, Basic English
Descriptions: *****

Weekly Schedule

Exam Date:
ENGG 140 MID 1 Sep. 20
CS 110 MID Oct.10
ENGG 100 MID 1 Sep.20
ENGL 100 Final Dec.10

Notes: (NOT part of design)

- 1) Term selector is a drop down menu. And it can only choose current and next semester, no passed or future semester.
- 2) Courses detail info is the same as original VSB with one additional label line added.
- 3) Exam Date section will display both midterm and final exam dates. It should highlight or bold or underline the potential conflict date to notify the student, (Time conflict, same day, two continuous days)
- 4) Courses Completed and Courses To Take are two equally spaced content area stick with the browser bottom, move up and down as the user scroll. This design should give user a friendly experience because while students trying to determine the courses of next semester, they often will check this two section.

Courses Completed

CHEM 104 ENGG 123 MATH 110 MATH 122

Courses To Take

MATH 111 EMPTY



Academic Schedule Builder	Semester Schedule Builder	Course List DB	
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Filter ▾

- CHEM 104
- ENGG 123
- ENGG 140
- MATH 110
- MATH 122
- CS 110
- ENGG 100
- ENGL 100
- MATH 111
- PHYS 119
- CS 115
- ENEL 280
- ENEV 223
- MATH 217
- PHYS 112
- CS 210
- ENEL 281
- ENEL 282
- MATH 213
- STAT 289
- CS 215
- CS 340
- ENEL 384
- ENSE 352
- ENSE 374
- BUS 260
- ECON 201
- Approve E.
- ENEL 380
- ENSE 353
- ENEL 387
- ENSE 470
- ENSE 471
- ENSE 475
- Approve E.
- ENGG 303
- ENSE 400
- ENSE 472
- Approve E.
- Approve E.
- ENGG 401
- ENSE 350
- ENSE 477
- Approve E.
- Approve E

Notes: (NOT part of design)

- 1) Filter button is a drop down menu with multiple filter functionality. Filters includes, Faculty, Elective region, difficulty level, hot level, lecture type (online, field, classroom, with lab) etc
- 2) Difficulty level will be preliminary determined by average score in the passed semester. eg. average > 80 easy, 80 > average > 60 normal, average < 60 hard
- 3) Hot level will be preliminary determined by average time taken from course is able to register to 90% registered. eg. some takes hours, some empty up the close date.
- 4) Courses button can be clicked to go to courses detail page.

CHEM 104

- Course Name: General Chemistry I
- Course Prerequisites: CHEM 30 or CHEM 100 (65%)
- Labels: Basic Chemistry, Time consumed,
- Course Description: *****
- Professor have taught: Dr.A, Professor B
- History Average: 66%
- TextBook: " ***** " (Not required)
- Course content:
 - Quiz: Yes, after weekly
 - Project: No
 - Filed: No
 - Lab: Yes, every two week
- Syllabus:
 - Assignment 10%
 - Lab 20%
 - Quiz: 10%
 - Midterm: 20%
 - Final Exam: 40%