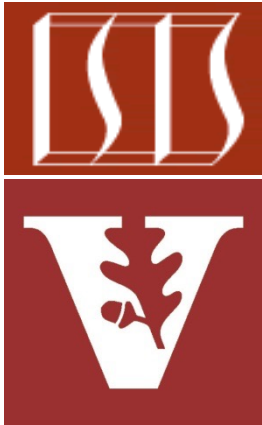


# CS 891: Scalable Microservices: Overview (Part 4)

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**Professor of Computer Science**

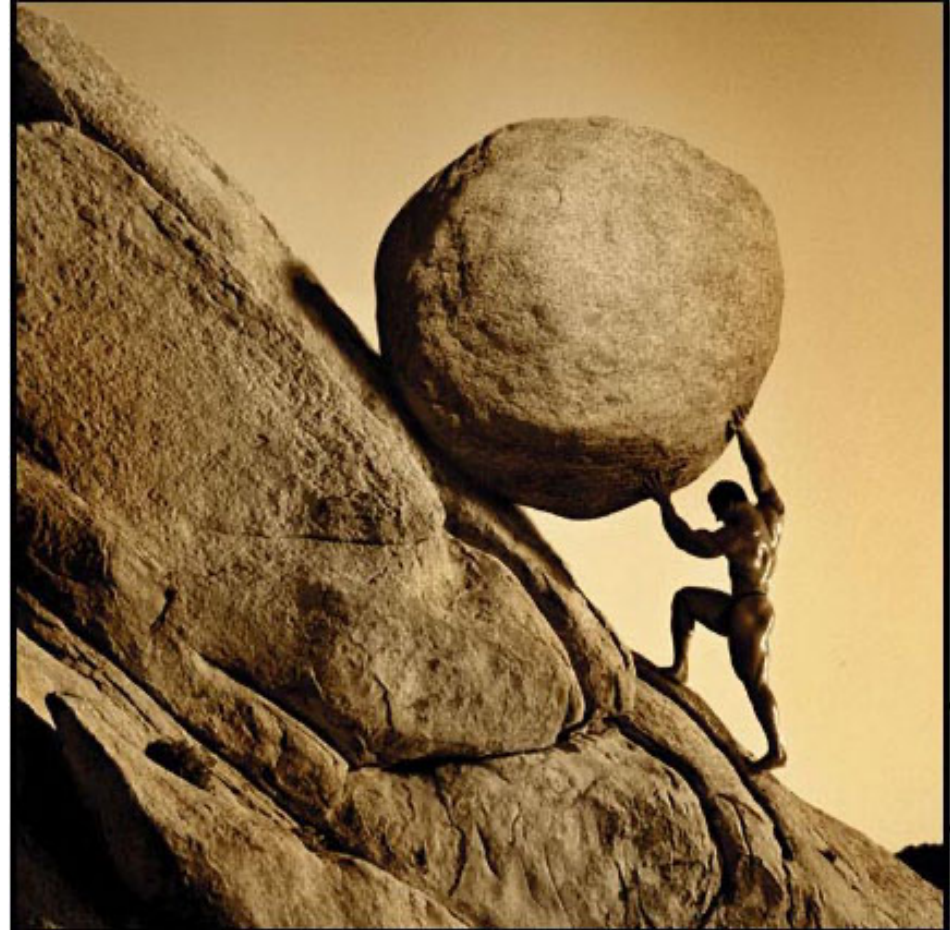
**Institute for Software  
Integrated Systems**

**Vanderbilt University  
Nashville, Tennessee, USA**



# Learning Objectives in this Lesson

- Understand the course topics & logistics
  - Course philosophy
  - Course contents
  - Structure of the lecture material
  - Overview of the assignments & assessments
  - Setting up Java & IntelliJ
  - Setting up GitLab et al.
  - Accessing Java 19 source code
  - Summary

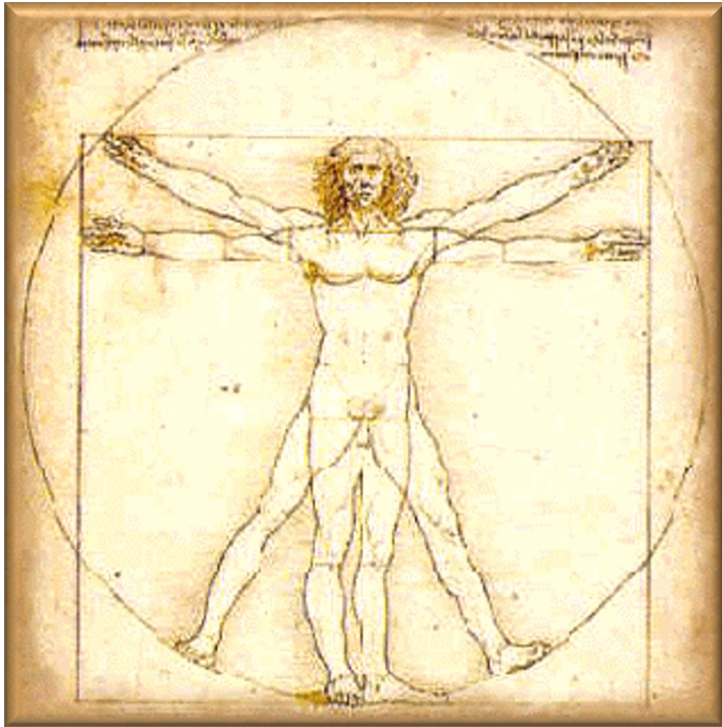


# Summary



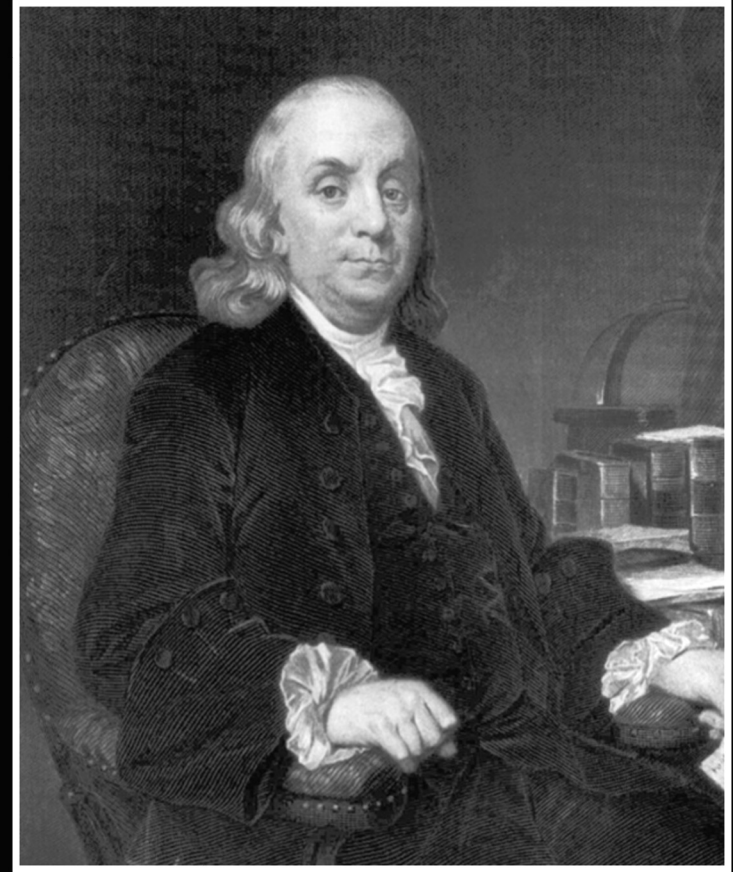
# Summary

- You will get out of this course what you put into it



# Summary

- You will get out of this course what you put into it
- Be prepared to work hard



## HARD WORK

“Human Felicity is produc'd not so much by great Pieces of good Fortune that seldom happen, as by little Advantages that occur every Day” - Benjamin Franklin

# Summary

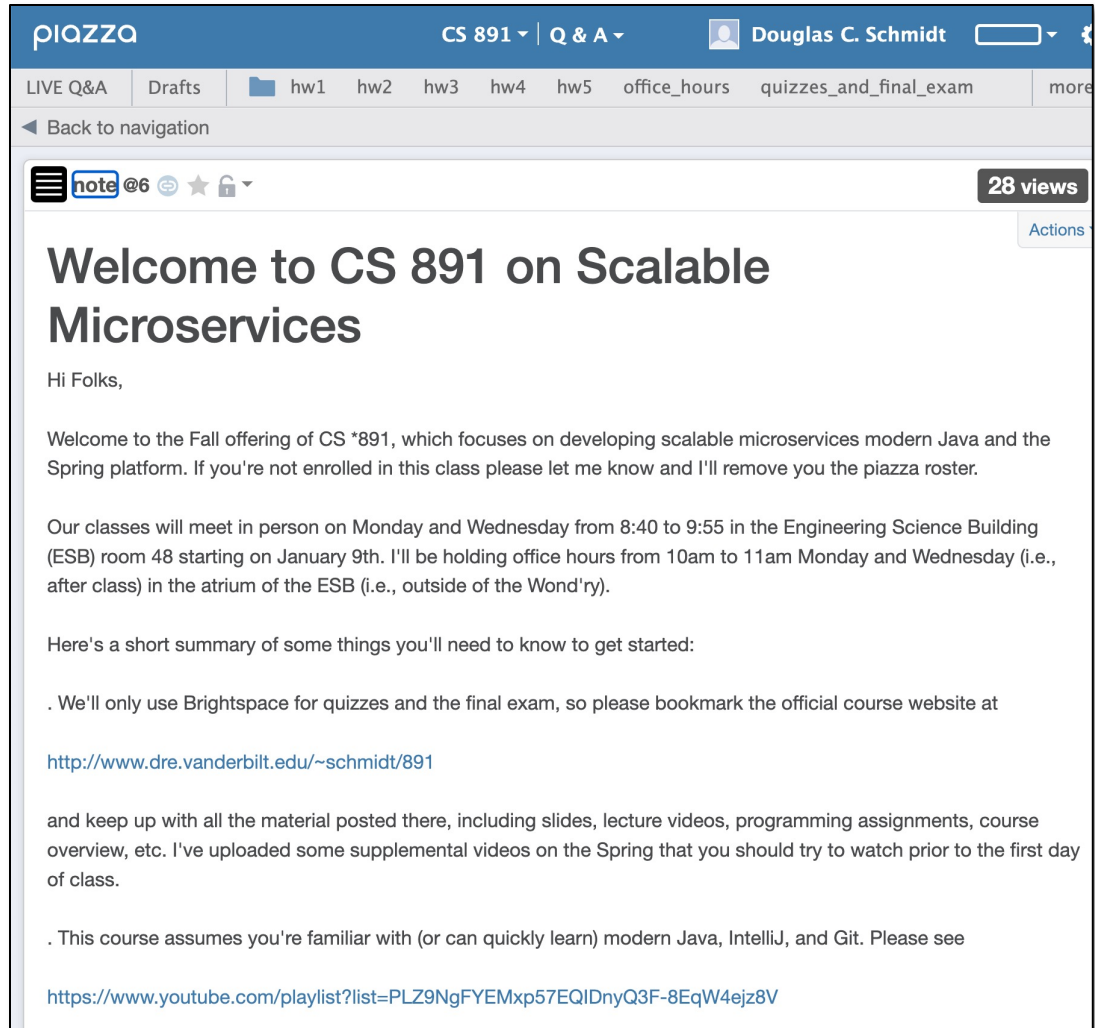
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- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
    - & make sure to follow directions for submitting programming assignments



# Summary

- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
- Participate in discussions in class & on piazza



The screenshot shows a Piazza post from Douglas C. Schmidt. The post title is "Welcome to CS 891 on Scalable Microservices". The content includes a greeting, a welcome message to the Fall offering of CS 891, class meeting details (Monday and Wednesday, 8:40-9:55 AM in ESB room 48), office hours (Monday and Wednesday, 10 AM-11 AM), a short summary of things to know to get started, and links to the course website and a YouTube playlist.

piazza CS 891 | Q & A Douglas C. Schmidt

LIVE Q&A Drafts hw1 hw2 hw3 hw4 hw5 office\_hours quizzes\_and\_final\_exam more

Back to navigation

note @6 28 views Actions

## Welcome to CS 891 on Scalable Microservices

Hi Folks,

Welcome to the Fall offering of CS \*891, which focuses on developing scalable microservices modern Java and the Spring platform. If you're not enrolled in this class please let me know and I'll remove you the piazza roster.

Our classes will meet in person on Monday and Wednesday from 8:40 to 9:55 in the Engineering Science Building (ESB) room 48 starting on January 9th. I'll be holding office hours from 10am to 11am Monday and Wednesday (i.e., after class) in the atrium of the ESB (i.e., outside of the Wond'ry).

Here's a short summary of some things you'll need to know to get started:

- . We'll only use Brightspace for quizzes and the final exam, so please bookmark the official course website at <http://www.dre.vanderbilt.edu/~schmidt/891>

and keep up with all the material posted there, including slides, lecture videos, programming assignments, course overview, etc. I've uploaded some supplemental videos on the Spring that you should try to watch prior to the first day of class.

- . This course assumes you're familiar with (or can quickly learn) modern Java, IntelliJ, and Git. Please see <https://www.youtube.com/playlist?list=PLZ9NgFYEMxp57EQIDnyQ3F-8EqW4ejz8V>

See [piazza.com/vanderbilt/spring2024/cs891](https://piazza.com/vanderbilt/spring2024/cs891)

# Summary

- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
- Participate in discussions in class & on piazza
  - Please get in the habit of checking piazza frequently!

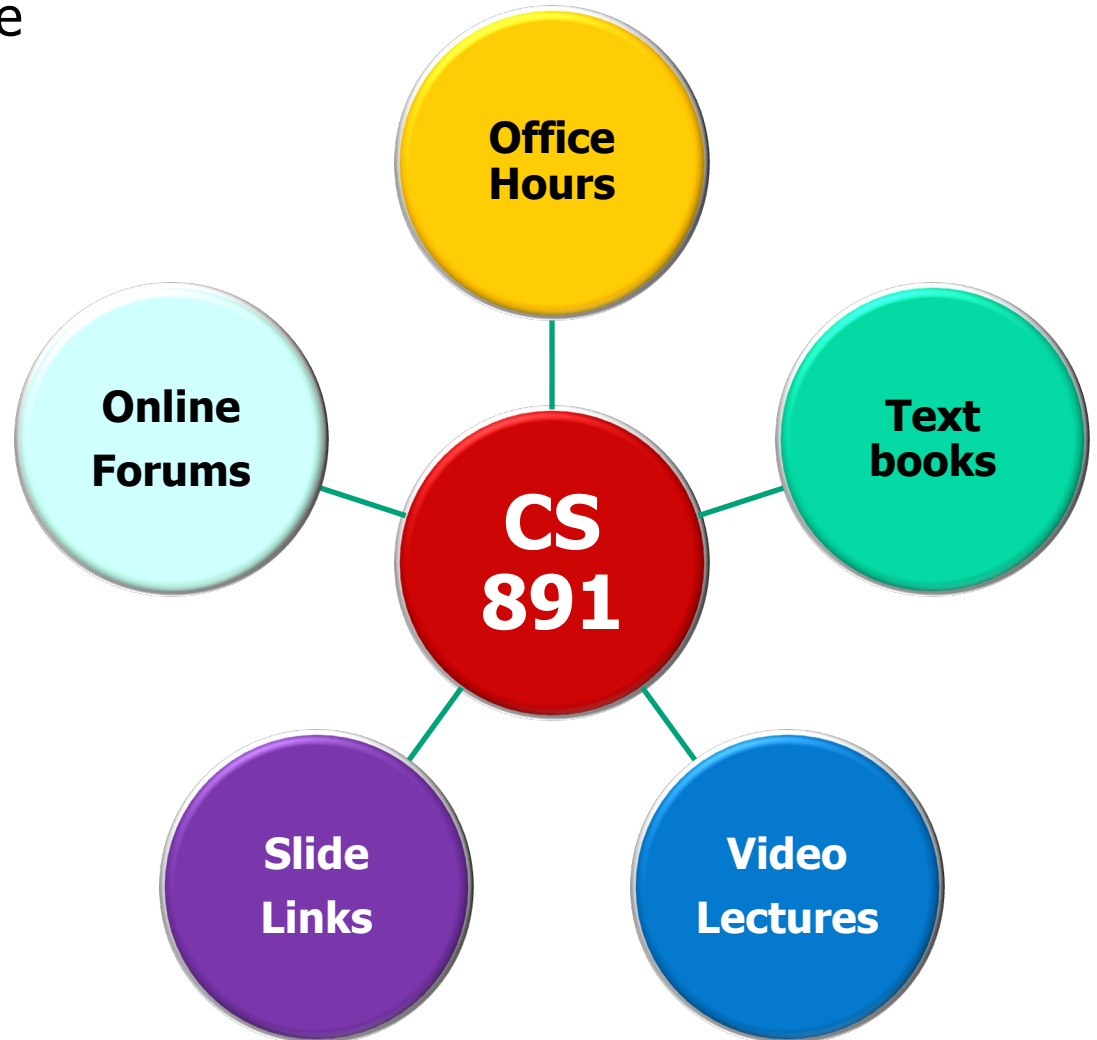




# Summary

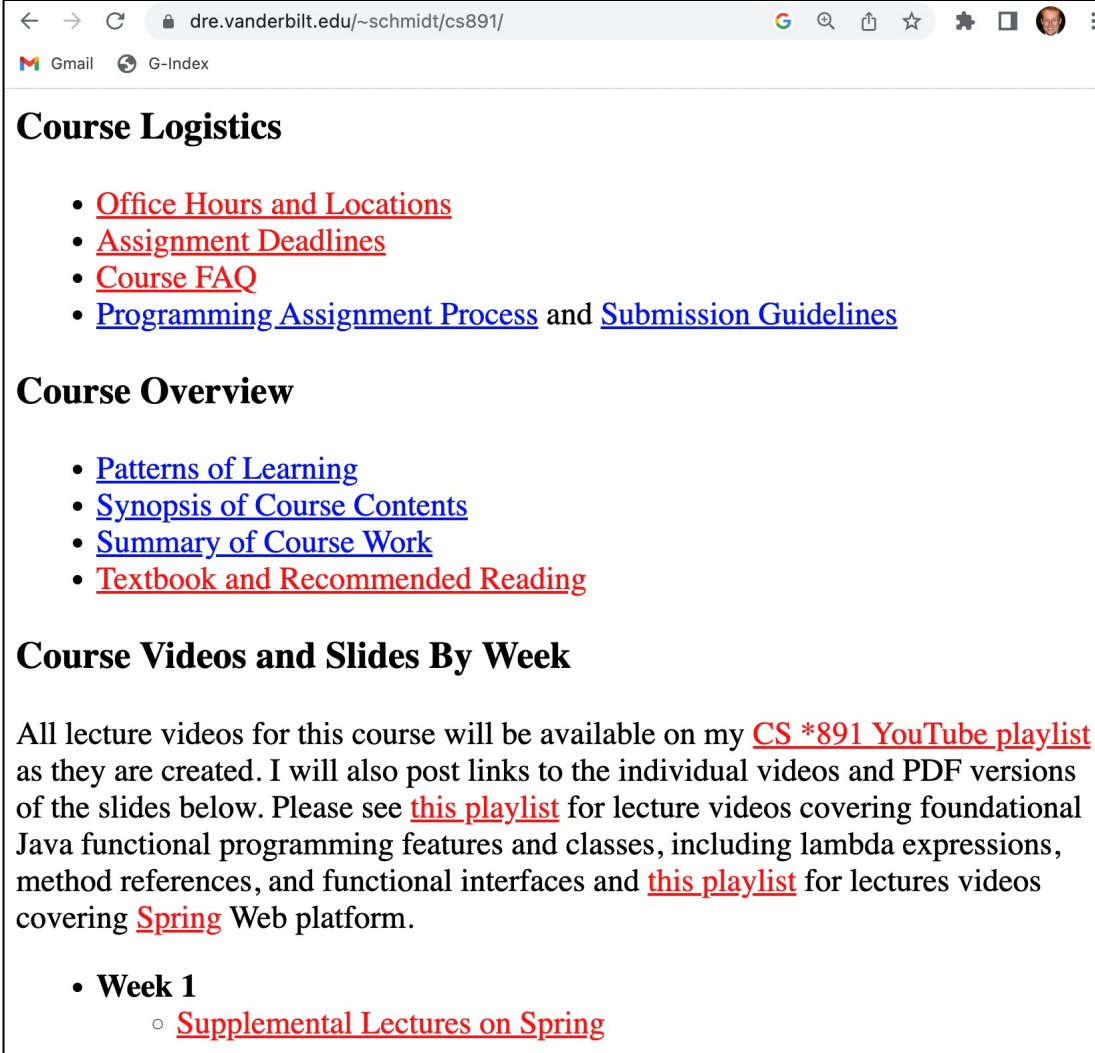
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- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
  - Participate in discussions in class & on piazza
- Avail yourself of available resources



# Summary

- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
  - Participate in discussions in class & on piazza
- Avail yourself of available resources
  - My website contains a lot of useful information!



The screenshot shows a web browser window with the address bar displaying [dre.vanderbilt.edu/~schmidt/cs891/](http://dre.vanderbilt.edu/~schmidt/cs891/). The page content is as follows:

## Course Logistics

- [Office Hours and Locations](#)
- [Assignment Deadlines](#)
- [Course FAQ](#)
- [Programming Assignment Process](#) and [Submission Guidelines](#)

## Course Overview

- [Patterns of Learning](#)
- [Synopsis of Course Contents](#)
- [Summary of Course Work](#)
- [Textbook and Recommended Reading](#)

## Course Videos and Slides By Week

All lecture videos for this course will be available on my [CS \\*891 YouTube playlist](#) as they are created. I will also post links to the individual videos and PDF versions of the slides below. Please see [this playlist](#) for lecture videos covering foundational Java functional programming features and classes, including lambda expressions, method references, and functional interfaces and [this playlist](#) for lectures videos covering [Spring](#) Web platform.

- **Week 1**
  - [Supplemental Lectures on Spring](#)

See [www.dre.vanderbilt.edu/~schmidt/cs891](http://www.dre.vanderbilt.edu/~schmidt/cs891)

# Summary

- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
  - Participate in discussions in class & on piazza
- Avail yourself of available resources
  - My website contains a lot of useful information!
  - Also check out Prof. White's supplemental videos on Spring

YouTube

## Microservices with Spring

Jules White  
47 videos 2 views Updated yesterday

Play all Shuffle

- 1 Frameworks, Inversion Of Control, & Dependency Injection  
Jules White • 5 views • 2 days ago  
10:43
- 2 The Java Spring Framework  
Jules White • 3 views • 2 days ago  
4:18

See [www.dre.vanderbilt.edu/~schmidt/cs891/supplemental-lectures.html](http://www.dre.vanderbilt.edu/~schmidt/cs891/supplemental-lectures.html)

# Summary

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- You will get out of this course what you put into it
  - Be prepared to work hard
  - Do *not* miss deadlines...
  - Participate in discussions in class & on piazza
- Avail yourself of available resources



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Please resist the urge to email me (you can use private piazza posts if it's a confidential matter or you'd like to schedule a meeting)!

# Summary

- There are abundant opportunities!



FIGURE 1: AVERAGE SALARIES BY DISCIPLINE / BACHELOR'S DEGREES

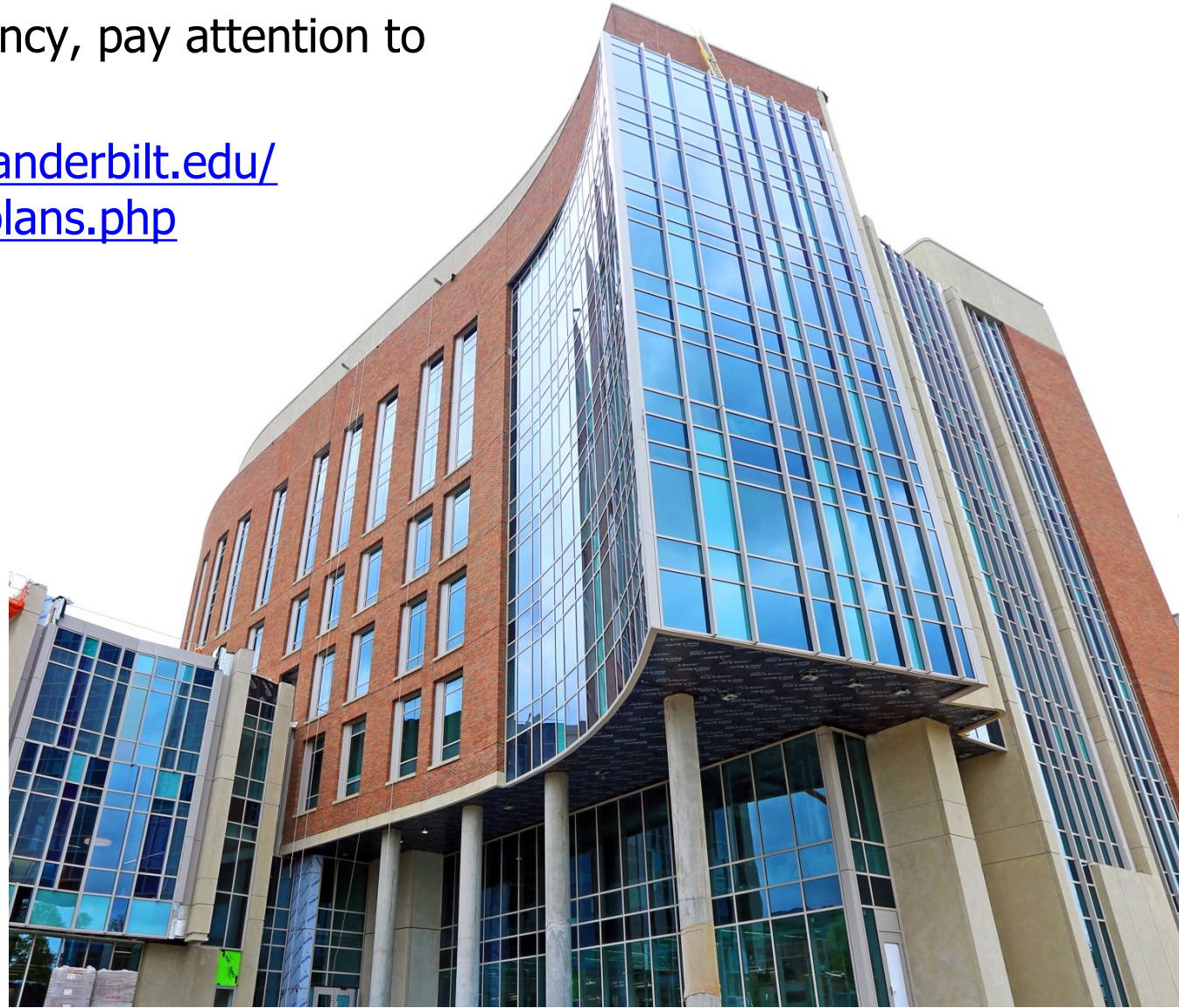
BROAD CATEGORY	2023 SALARY PROJECTION	2022 SALARY PROJECTION	% CHANGE
Engineering	\$74,405	\$73,922	0.7%
Computer Sciences	\$72,843	\$75,900	-4.0%
Math & Sciences	\$67,199	\$66,760	0.7%
Business	\$62,069	\$60,695	2.3%
Social Sciences	\$60,107	\$61,173	-1.7%
Agriculture & Natural Resources	\$59,282	\$57,807	2.6%
Communications	\$58,097	\$55,455	4.8%
Humanities	\$52,938	\$50,681	4.5%

See [www.nacweb.org/job-market/compensation/salary-for-class-of-2023-computer-sciences-grads-expected-to-fall-but-demand-remains-strong](http://www.nacweb.org/job-market/compensation/salary-for-class-of-2023-computer-sciences-grads-expected-to-fall-but-demand-remains-strong)

# Summary

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- If there's an emergency, pay attention to the escape route!
- See [engineering.vanderbilt.edu/about/evacuationplans.php](http://engineering.vanderbilt.edu/about/evacuationplans.php)



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