

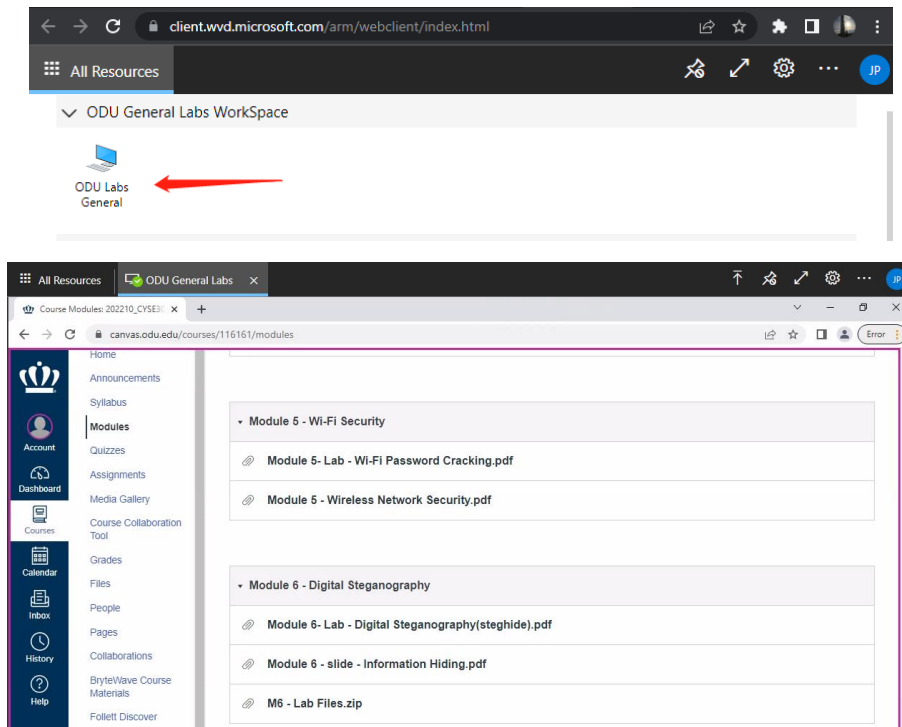
CYSE 301: Cybersecurity Technique and Operations

**Assignment M6: Digital Steganography**

For this assignment, no PDF submission is allowed. Each student must submit the STEGO file containing the answers to the following questions to get full credit.

### Lab Preparation:

- For students who are using Windows Laptop/Desktop, you can choose to complete the assignment locally. You can download the required lab files from Canvas ("M6 – Lab files.zip").
- [Mac User Only] Access a Windows VM named "ODU Labs General" in the group "ODU General Labs WorkSpace" on [ODU MoVE](https://move.odu.edu) (move.odu.edu). This VM provides you the Internet access, so you can download/upload files to Canvas.



### Assignment details:

You need to use **steghide**, not **s-tool** to complete this assignment. Your local path may be different depends on the folder where you extract the executable file. Make sure you are working on the right directory.

1. Create a text file containing the answers to the following questions:
  - What are your name and current date and timestamp?
  - What is your expected grade in this course?
2. Use steghide to hide this text file in the cover image, " monarch.bmp."
  - Use your own **UIN** as the password for encryption, for example, **01000123**.
  - Use your **Midas ID** (all lowercase) as the name of the STEGO file, for example ("**pjian123.bmp**").
3. Upload the STEGO file ("**pjian123.bmp**") on Canvas. A python script will be used to extract and read your secret message automatically. A grade of zero will be provided if it fails to extract the secret message due to the wrong name or password provided in your submission.