

## Student Laptop

## Introduction and Purpose:

This document outlines the minimum specifications for laptops at CHSU to be effective with the requirements to achieve the learning outcomes of the curriculum for exams and quizzes. This document is not intended to be a complete specification of system requirements, but rather highlight the required elements of the laptop configurations.

Note: The requirement is: you must use a laptop computer and NOT another digital device including tablets (e.g., iPads, Chromebooks, etc.) or smartphones.

## **Laptop Requirements:**

## Windows Laptops (Preferred)

Highly Recommended elements for Windows Laptops are as follows:

#### 1. Hardware:

- a. 8GB of RAM; 16GB recommended
- b. CPU processor equivalent to Intel i5 540m 2.5 GHZ or higher processor (**ARM processors are NOT supported**)
- c. 256GB or larger hard drive / solid state drive
- d. Display resolution of 1024 x768 or higher
- e. Must support audio & video input and output (e.g., camera, microphone, speakers, etc.)
- f. Wireless card to support 802.11ax (Wi-Fi 6) wireless network access via WPA2 Enterprise encryption
- g. Capable of Bluetooth wireless communication
- h. At least one USB port capable of downloading/uploading material to a flash drive.

## 2. Software:

- a. Microsoft Windows 10, 64-bit, version 22H2 or Windows 11 ONLY
- b. Browsers:
  - i. Google Chrome
  - ii. Microsoft Edge
- c. Adobe Reader DC (latest version)
- d. Video player software to play MP4 files
- e. Current version of Examplify (Examsoft testing client)\_ https://help.examsoft.com/s/article/Exam-Taker-Quick-Start-Guide
- f. Cisco Webex, Micosoft Teams, and Zoom web conferencing clients (latest version)



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## **Apple Laptops** (Acceptable, but not recommended)

Required elements for Apple laptop purchases are as follows:

#### 1. Hardware:

- a. 8GB of RAM; 16GB recommended
- b. M1 processor required. M2 processor strongly encouraged
- c. 256GB or larger hard drive / solid state drive
- d. Display resolution of 1024 x768 or higher
- e. Must support audio & video input and output (e.g., camera, microphone, speakers, etc.).
- f. Wireless card to support 802.11ax (Wi-Fi 6) wireless network access via WPA2 Enterprise encryption
- g. Capable of Bluetooth wireless communication
- h. At least one USB port capable of downloading/uploading material to a flash drive.

## 2. Software:

- a. Required Operation System: macOS Big Sur, Monterey, or Ventura ONLY
- b. Browsers:
  - i. Google Chrome
  - ii. Safari
- c. Adobe Reader DC (latest version)
- d. Video player software to play MP4 files
- e. Current version of Examplify (Examsoft testing client)\_ https://help.examsoft.com/s/article/Exam-Taker-Quick-Start-Guide
- f. Cisco Webex, Micosoft Teams, and Zoom web conferencing clients (latest version)

Note: Required Microsoft office products will be available via Microsoft 365 access with your chsu.edu ID

https://examsoft.com/resources/examplify-minimum-system-requirements/

## **Required Device for 1st-year Anatomy Curriculum**

a. The HoloLens 2 including Holoanatomy Software & Case Western University Licensing will be temporarily leased to you through CHSU-COM.



1. iPhone 14

## **Butterfly IQ+ Probe**

Below is a <u>list of devices</u> that are compatible with Butterfly iQ+

## **Apple iOS**

The Butterfly iQ app is available on Apple iOS 14.0 or newer. We are not compatible with beta versions of iOS. To update your mobile device, please follow the steps here.

## Lightning:

Preferred

2. iPhone 14 Plus 3. iPhone 14 Pro 4. iPhone 14 Pro Max 5. iPhone 13 6. iPhone 13 Mini 7. iPhone 13 Pro 8. iPhone 13 Pro Max 9. iPhone 12 10. iPhone 12 Pro 11. iPhone 12 Pro Max 12. iPhone 12 mini 13. iPhone 11 14. iPhone 11 Pro 15. iPhone 11 Pro Max 16. iPhone XS Max 17. iPhone XS 18. iPhone XR 19. iPad Pro (12.9-inch) (1st and 2nd generation) Acceptable 20. iPad Pro (10.5-inch) 21. iPad Pro (9.7-inch) 22. iPad (5th\*, 6th, 7th, 8th, 9th, and 10th generation)

#### USB-C:

Preferred 1. iPhone 152. iPhone 15 Plus

3. iPhone 15 Pro

4. iPhone 15 Pro Max

Acceptable 5. iPad Pro (12.9-inch) (3rd, 4th, 5th, and 6th generation)

6. iPad Pro (11-inch) (1st, 2nd, 3rd, and 4th generation)

7. iPad (10.9-inch) (10th generation)

8. iPad Air 4th and 5th generation

9. iPad Mini 6th generation

23. iPad Air 3rd generation24. iPad mini 5th generation

<sup>\*</sup>Use of the iPhone 6S or iPad 5th generation is not recommended with the Butterfly iQ+.



## **Samsung Devices**

Use of the Butterfly iQ with USB-C connectivity with Samsung mobile devices requires Android version 9 or newer. It is not compatible with beta versions of Android.

- 1. Samsung Galaxy S9
- 2. Samsung Galaxy S9+
- 3. Samsung Galaxy Note 9
- 4. Samsung Galaxy S10 Lite
- 5. Samsung Galaxy S10 US Edition (Models SM-G973U & SM-G973U1)
- 6. Samsung Galaxy S10+ US Edition (Model SM-G975U)
- 7. Samsung Galaxy S10e US Edition (Model SM-G970U)
- 8. Samsung Galaxy Note 10 US Edition (Models SM-N970U & SM-N970U1)
- 9. Samsung Galaxy Note 10+ US Edition (Models SM-N975U & SM-N975U1)
- 10. Samsung Galaxy S10 Canadian Edition (Model SM-G973W)
- 11. Samsung Galaxy S10+ Canadian Edition (Model SM-G975W)
- 12. Samsung Galaxy S10e Canadian Edition (Model SM-G970W)
- 13. Samsung Galaxy Note 10 Canadian Edition (Model SM-N970W)
- 14. Samsung Galaxy Note 10+ Canadian Edition (Model SM-N975W)
- 15. Samsung Galaxy S20
- 16. Samsung Galaxy S20+
- 17. Samsung Galaxy S20 Ultra
- 18. Samsung Galaxy S20 FE
- 19. Samsung Galaxy Note 20
- 20. Samsung Galaxy Note 20 Ultra
- 21. Samsung Galaxy Tab S6
- 22. Samsung Galaxy Tab S7
- 23. Samsung Galaxy Tab S7+
- 24. Samsung Galaxy S21 5G
- 25. Samsung Galaxy S21 Ultra 5G
- 26. Samsung Galaxy S21+ 5G
- 27. Samsung Galaxy Tab Active3
- 28. Samsung Galaxy Tab S8
- 29. Samsung Galaxy Tab S8+ 30. Samsung Galaxy Tab S8 Ultra
- 31. Samsung Galaxy S21 FE US Edition (All Models)
- 32. Samsung Galaxy S21 FE (Exynos)
- 33. Samsung Galaxy S22
- 34. Samsung Galaxy S22+ (Models: SM-S906U, SM-S906U1, SM-S906W, SM-S906N, SM-S9060, SM-S906E)
- 35. Samsung Galaxy S22 Ultra (Models: SM-S908U, SM-S908U1, SM-S908W, SM-S908N, SM-S9080, SM-S908E)
- 36. Samsung Galaxy Z Fold 2
- 37. Samsung Galaxy Z Fold 3
- 38. Samsung Galaxy Z Fold 4
- 39. Samsung Galaxy S23
- 40. Samsung Galaxy S23+
- 41. Samsung Galaxy S23 Ultra

<sup>\*</sup>Please note that the Samsung Galaxy Tab S6 Lite and Tab S7 FE are not supported.



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We perform extensive hardware verification. The Samsung Galaxy S10 and Note 10 International variant devices were unable to achieve the transfer rate cutoff necessary for clinical imaging. As a result, we only support the Galaxy S10 and Note 10 US and Canada Editions.

## **Google Devices**

Use of the Butterfly iQ with USB-C connectivity with the Google Pixel requires Android version 10 or newer.

- 1. Google Pixel 3
- 2. Google Pixel 3 XL
- 3. Google Pixel 4
- 4. Google Pixel 4 XL
- 5. Google Pixel 6
- 6. Google Pixel 6 Pro
- 7. Google Pixel 6a
- 8. Google Pixel 7
- 9. Google Pixel 7 Pro

## **OnePlus Devices**

Use of the Butterfly iQ with USB-C connectivity with OnePlus mobile devices requires Android version 10 or newer.

- 1. OnePlus 7T
- 2. OnePlus 7T Pro
- 3. OnePlus 7
- 4. OnePlus 7 Pro
- 5. OnePlus 8
- 6. OnePlus 8 Pro
- 7. OnePlus 8T
- 8. OnePlus 9
- 9. OnePlus 9 Pro
- 10. OnePlus 10 Pro
- 11. OnePlus 11 5G

<sup>\*</sup>Please note that the Google Pixel 3a, 4a, 5, and 5a are not supported.