

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 (Required for exams, tests, labs, etc.)

Apple and other digital devices are acceptable for personal use, but are not compatible for the items listed above and will not be supported.

Required elements for Windows Laptops are as follows:

1. Hardware:

- a. 8GB of RAM; **16GB recommended**
- b. CPU processor equivalent to Intel i5, 2.5 GHZ or higher processor
(ARM processors are NOT supported)
- c. 256GB or larger solid state drive, **512GB or external hard drive recommended**
- 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 23H2, 24H2, 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, Microsoft Teams, and Zoom web conferencing clients (latest)

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/>

Butterfly IQ+ Probe

Below is a [list of devices](#) 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:

- | | |
|-------------------|--|
| <i>Preferred</i> | 1. iPhone 14 |
| | 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 |
| <i>Acceptable</i> | 13. iPhone 11 |
| | 14. iPhone 11 Pro |
| | 15. iPhone 11 Pro Max |
| | 16. iPhone XS Max |
| | 17. iPhone XS |
| | 18. iPhone XR |
| | 19. iPhone X |
| | 20. iPhone 8 |
| | 21. iPhone 8 Plus |
| | 22. iPhone SE (2nd and 3rd generation) |
| | 23. iPad Pro (12.9-inch) (1st and 2nd generation) |
| | 24. iPad Pro (10.5-inch) |
| | 25. iPad Pro (9.7-inch) |
| | 26. iPad (5th*, 6th, 7th, 8th, 9th, and 10th generation) |
| | 27. iPad Air 3rd generation |
| | 28. iPad mini 5th generation |

USB-C:

- | | |
|-------------------|--|
| <i>Preferred</i> | <ol style="list-style-type: none">1. iPhone 162. iPhone 16 Plus3. iPhone 16 Pro4. iPhone 16 Pro Max5. iPhone 156. iPhone 15 Plus7. iPhone 15 Pro8. iPhone 15 Pro Max |
| <i>Acceptable</i> | <ol style="list-style-type: none">9. iPad Pro (13-inch) (7th generation)10. iPad Pro (12.9-inch) (3rd, 4th, 5th, and 6th generation)11. iPad Pro (11-inch) (1st, 2nd, 3rd, 4th and 7th generation)12. iPad (10.9-inch) (10th generation)13. iPad Air (4th and 5th generation)14. iPad Air (13-inch) (6th generation)15. iPad Air (11-inch) (6th generation)16. iPad Mini (6th generation) |

*Use of the iPad 5th generation is not recommended with the Butterfly IQ+.

Android Devices

Use of the Butterfly IQ with USB-C connectivity with Samsung mobile devices requires Android version 10 or newer. We are not compatible with beta versions of Android.

Samsung Devices

Use of the Butterfly IQ with USB-C connectivity with Samsung mobile devices requires Android version 10 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 Note 10+ Canadian Edition (Model SM-N975W)

16. Samsung Galaxy S20
17. Samsung Galaxy S20+
18. Samsung Galaxy S20 Ultra
19. Samsung Galaxy S20 FE
20. Samsung Galaxy Note 20
21. Samsung Galaxy Note 20 Ultra
22. Samsung Galaxy Tab S6
23. Samsung Galaxy Tab S7
24. Samsung Galaxy Tab S7+
25. Samsung Galaxy S21 5G
26. Samsung Galaxy S21 Ultra 5G
27. Samsung Galaxy S21+ 5G
28. Samsung Galaxy Tab Active3
29. Samsung Galaxy Tab S8
30. Samsung Galaxy Tab S8+
31. Samsung Galaxy Tab S8 Ultra
32. Samsung Galaxy Tab S9
33. Samsung Galaxy Tab S9+
34. Samsung Galaxy Tab S9 Ultra
35. Samsung Galaxy S21 FE US Edition (All Models)
36. Samsung Galaxy S21 FE (Exynos)
37. Samsung Galaxy S22
38. Samsung Galaxy S22+ (Models: SM-S906U, SM-S906U1, SM-S906W, SM-S906N, SM-S906O, SM-S906E)
39. Samsung Galaxy S22 Ultra (Models: SM-S908U, SM-S908U1, SM-S908W, SM-S908N, SM-S908O, SM-S908E)
40. Samsung Galaxy Z Fold 2
41. Samsung Galaxy Z Fold 3
42. Samsung Galaxy Z Fold 4
43. Samsung Galaxy Z Fold 4
44. Samsung Galaxy Z Fold 5
45. Samsung Galaxy S23
46. Samsung Galaxy S23+
47. Samsung Galaxy S23 Ultra
48. Samsung Galaxy S24
49. Samsung Galaxy S24+
50. Samsung Galaxy S24 Ultra

*Please note that the Samsung Galaxy Tab S6 Lite and Tab S7 FE are not supported.

Please note that your device must be in tablet mode, Desktop Experience (DeX) Mode is not supported.

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.

Please note that the Samsung Galaxy Tab S6 Lite and Tab S7 FE are not supported.

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 - not compatible with iQ3
2. Google Pixel 3 XL - not compatible with iQ3
3. Google Pixel 4 - not compatible with iQ3
4. Google Pixel 4 XL - not compatible with iQ3
5. Google Pixel 6
6. Google Pixel 6 Pro
7. Google Pixel 6a
8. Google Pixel 7
9. Google Pixel 7 Pro
10. Google Pixel 8
11. Google Pixel 8 Pro

*Please note that the Google Pixel 3a, 4a, 5, 5a and 8a are not supported.

OnePlus Devices

OnePlus devices are no longer supported as of app version 2.33.0.