Engineering Computer Requirements and Support

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Questions?
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## Computer Requirements

### Fall 2024 - Spring 2025

- You do not have to purchase from the Bookstore (there are advantages though).
- Only Computer Science Majors should purchase a MacBook. Surface Pro X (w/ ARM CPU), iOS, Androids, and Chromebooks are **NOT** acceptable.
- Don’t skip the warranty.
- The graphics card will help with graphics heavy applications (Solidworks, Autocad, etc.). Many of these will be used in later years of your major.

### Min Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Operating System</td>
<td>Windows 11 (64bit) (MacOS and Chrome OS not supported)*</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel 13th gen i5/i7 or Intel Core Ultra 5/7 Series 1 or AMD Ryzen 5/7 7030/7040/8000 Series; or higher</td>
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<tr>
<td>Memory</td>
<td>32 GB RAM</td>
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<tr>
<td>Storage</td>
<td>500 GB or larger Solid State Drive (SSD) or higher</td>
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<tr>
<td>Warranty</td>
<td>4 Year w/ accident protection</td>
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<tr>
<td>Graphics Card</td>
<td>Discrete/dedicated graphics card with 4GB Video RAM or higher (NVIDIA / AMD Only)</td>
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<tr>
<td>Video Conferencing Tools</td>
<td>Video Camera; Headset or Microphone/Speakers</td>
</tr>
<tr>
<td>Backup</td>
<td>Cloud Drive Service or 500 GB external SSD drive.</td>
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</tbody>
</table>

More info at: [https://eng.vt.edu/it/requirement](https://eng.vt.edu/it/requirement)

Purchasing Options: [https://eng.vt.edu/admissions/computer-requirement/options-for-purchase.html](https://eng.vt.edu/admissions/computer-requirement/options-for-purchase.html)
**Software Bundles**

- Both are required.
- Undergraduate Bundle should already be available a few months before classes begin.
- Engineering Bundle will be available the week before classes. (along with price).
- No need to install all Engineering software right away.

**Engineering info can be found at:**

[https://eng.vt.edu/it/requirement](https://eng.vt.edu/it/requirement)

**Undergraduate Software Bundle - $67 (2023 price)**
- Microsoft Office 365
- Microsoft Windows

**Engineering Software Bundle - ~$100 (2023 price)**
- **MATLAB**: Mathematical analysis software
- **SOLIDWORKS**: 3D CAD design software
- **PDF Annotator**: Note taking and document revision software
- **Microsoft Azure Dev Tools**: Microsoft developer tools
- **Microsoft Project and Visio**: Project management and diagramming software
- **SAS JMP Pro**: Statistical analysis software
- **CATME**: Teamwork software

**Other software commonly used:**
- **No Cost**: AutoCAD, Mathematica, Google*, Pulse VPN, Zoom, etc.
- **Open Source**: R, Python, Linux, etc.

[https://it.eng.vt.edu/software/undergraduate-software.html](https://it.eng.vt.edu/software/undergraduate-software.html)

**University Software Service Center**

- Web: [https://software.vt.edu](https://software.vt.edu)
- Ticket: [https://software.vt.edu/help](https://software.vt.edu/help)
- Email: studentsoftware@vt.edu
- Phone: 540-231-3969

**Google Changes:** [https://it.vt.edu/projects/google-changes.html](https://it.vt.edu/projects/google-changes.html)
Free Computer Support
by the Eng. Software Assistance Triage (SWAT) Office

**Installations**
We can help get you on the right path; whether it’s a reinstall of Windows, the latest version of MATLAB, or getting boot camp to work.

**Technical Support**
- Hardware and Software Diagnostics
- Driver Issues
- Virus Removal
- Networking Issues

**Loanng**
Laptop down for repairs?
Get a loaner from us while you wait.

**Contact**
https://swat.eng.vt.edu
swat@vt.edu
540-231-7815
Questions?

Computer Requirements
Engineering Instructional Technology Team
Web: https://eng.vt.edu/it/requirement
Email: engtechteam@vt.edu
Phone: 540-231-9076

Software Bundles
University Software Service Center
Web: https://software.vt.edu
Ticket: https://software.vt.edu/help
Email: studentsoftware@vt.edu
Phone: 540-231-3969

Computer Support
Software Assistance Triage (SWAT)
Web: https://swat.eng.vt.edu
Ticket: https://swat.eng.vt.edu/request-help
Email: swat@vt.edu
Phone: 540-231-7815

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