

Ergonomics 101

Adjusting Your Workplace to Fit You



**Saint Mary's
University**

Areas of Concern

- Seat
- Keyboard/Mouse Support
- Workstation Layout
- Computer Equipment
- Special Considerations



The domino effect

Creating the proper set-up is very much like putting a series of dominos in place. If you make a change at any point, in most cases, you will have to return to the starting point in order for everything to fall into place.



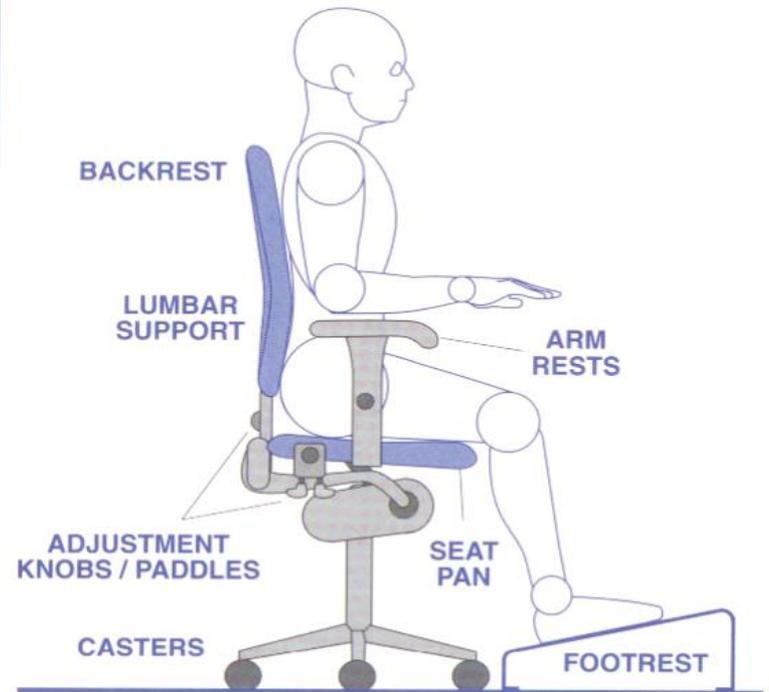
Seating

If the chair fits...



Seating: Seat Height

- Your thighs should be parallel to the floor, knees at a 90 degree angle in line with hips or preferably the hips are slightly above the knees.
- Height can be adjusted by pulling up the lever and standing slightly until chair height is correct.



Seating: Seat Pan

- You should be able to put 2-3 fingers between the back of your knees and the edge of the chair.



Seating: Backrest

- The lumbar support should curve into the small of your back and fit snugly.



Seating: Tilting and Tension

- The backrest should tilt backward and forward without a lot of pressure. Most chairs can be locked into place with the tilt paddle.
- If the tilt tension is too tight or loose, a knob on the underside of the chair is turned to tighten/loosen it.



Seating: Armrests

- The armrests should be padded, not hard wood or metal. They should be adjusted to below elbow height.
- To raise or lower armrests, squeeze the knob on each and lift or lower.



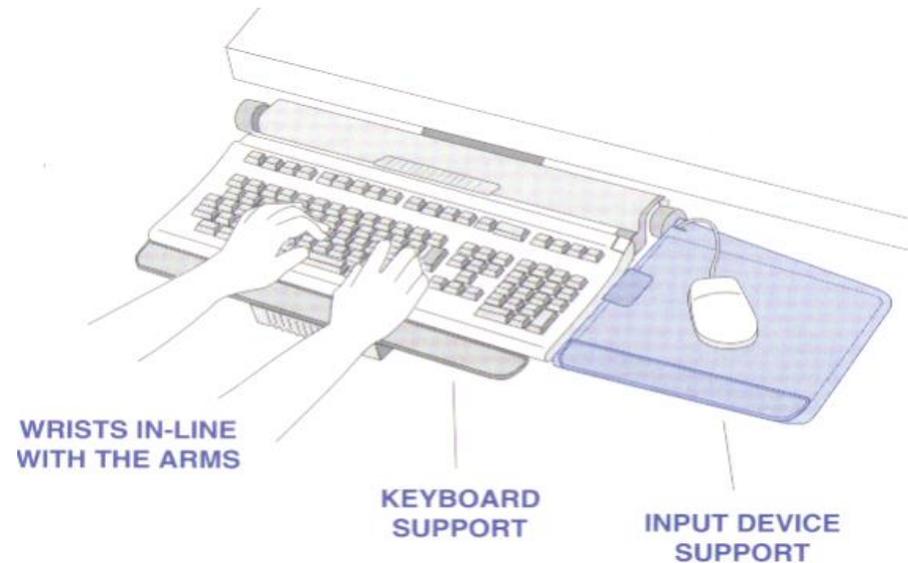
Keyboard/Mouse Support

Together forever



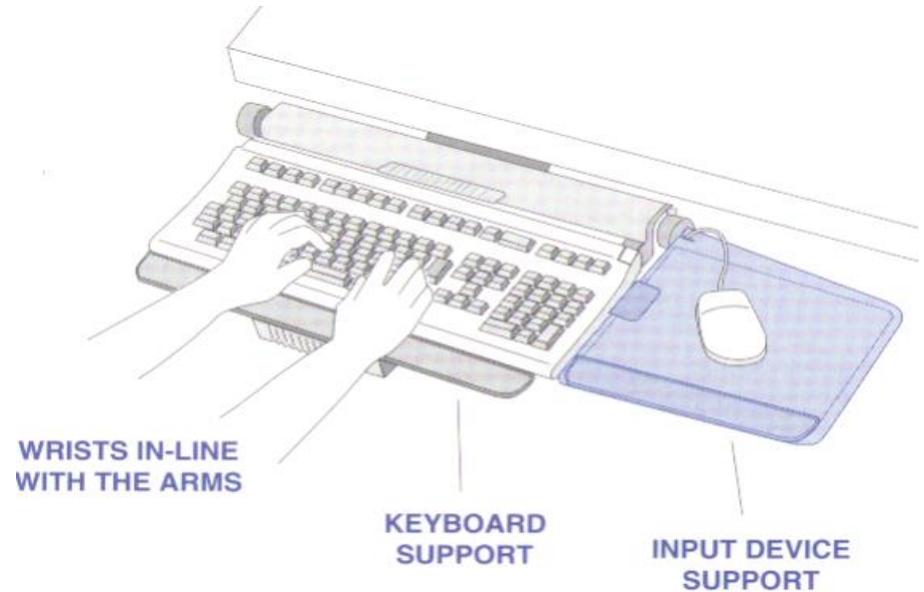
Support Height

- Height should be comfortable, with wrists in-line with arms and mouse on same level as keyboard.
- Height can be adjusted by either lifting the tray into place or, for other models, pressing the adjustment lever before lifting into place, then releasing it.



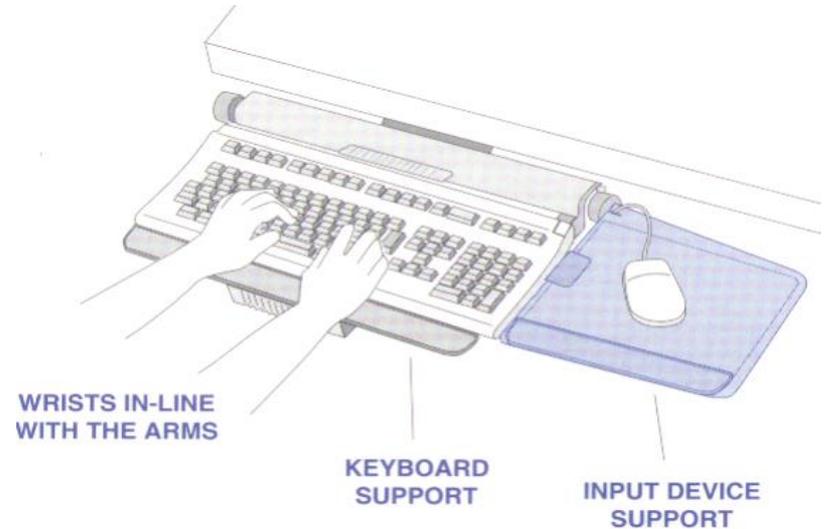
Support Position

- The keyboard should be in front of the monitor.
- The ANGLE of the keyboard should keep wrists in-line with arms. This is adjusted by loosening the knob at the arm of the tray, tilting it to the correct angle and tightening.



Support Features

- The tray should be stable while typing and mousing.
- There should be room to use both the keyboard and mouse.



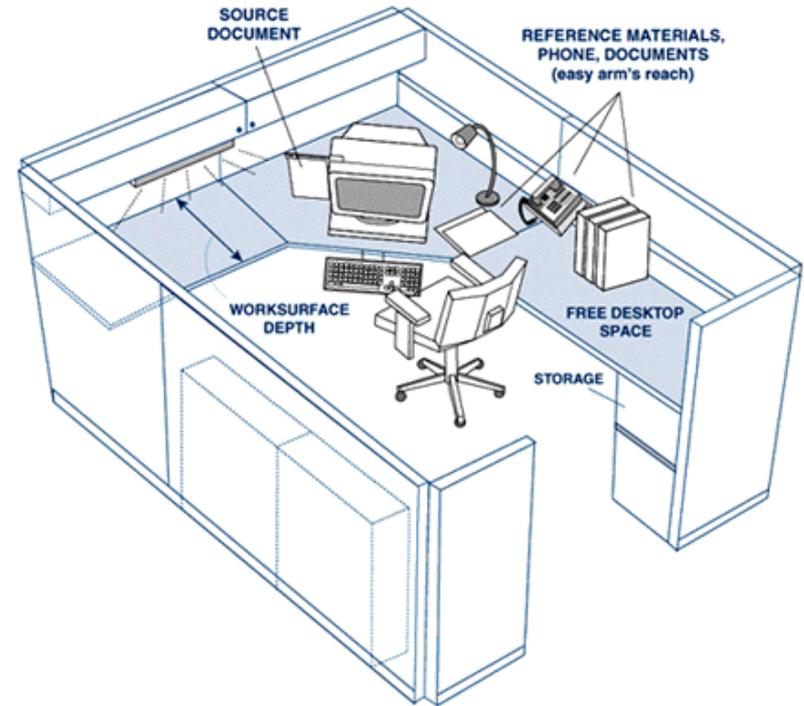
Workstation Layout

Bend and Stretch and Reach



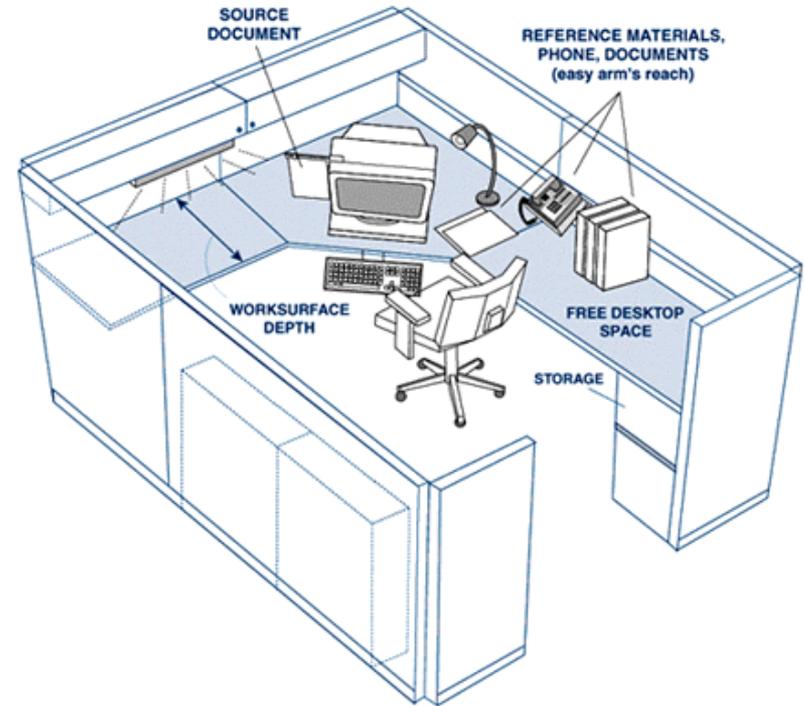
Workstation Space

- Desktop have adequate room for computer, phone and other necessary equipment
- You should have adequate storage space for files, office supplies, reference material etc.
- You should have some free desktop space for job task such as sorting, writing etc.



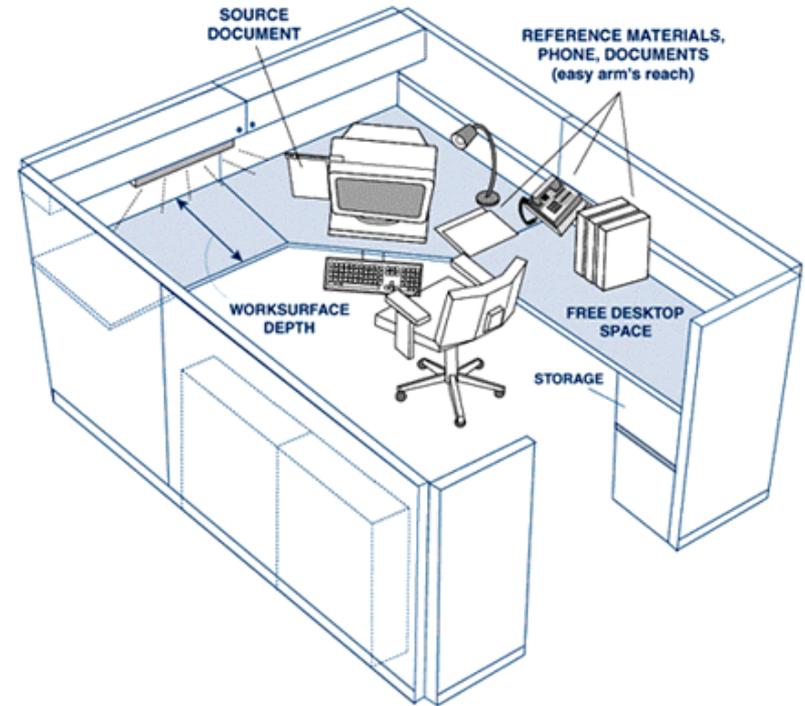
Functional Space

- Frequently accessed items (phone, files etc) should be within an **easy arm's reach**.
- There should be adequate legroom under the desk.
- Source documents should be positioned for easy reference without twisting or reaching when using the computer.
- Monitor is in front of you while typing.



Work Surface

- The work surface should be deep enough for the monitor to fit directly behind the keyboard.
- The height of the work surface should allow your arms to form approximately 90 degree angle when performing non-computer task.



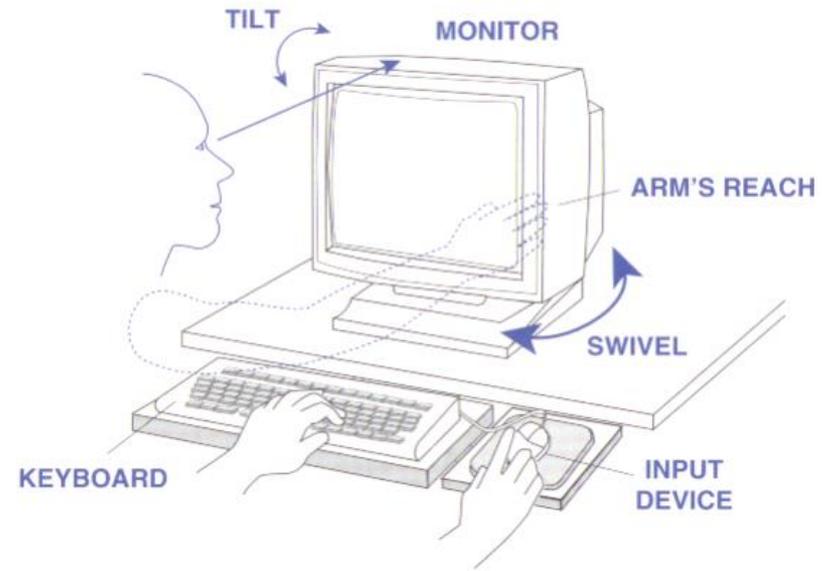
Computer Equipment

Does this thing work?



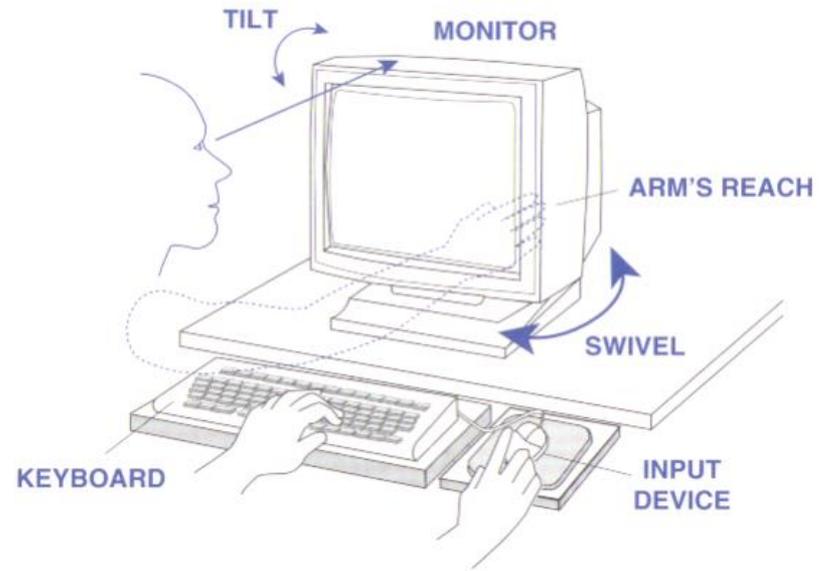
Keyboard and Mouse

- Both the keyboard and mouse should have all the features your job requires and both should work **reliably**.



Monitor

- The top of the monitor should be at or just below eye level
- Top line of text – let's do an exercise
- The monitor should be about an arm's reach away.
- The monitor should be clean, easy to read and free from blurry areas.



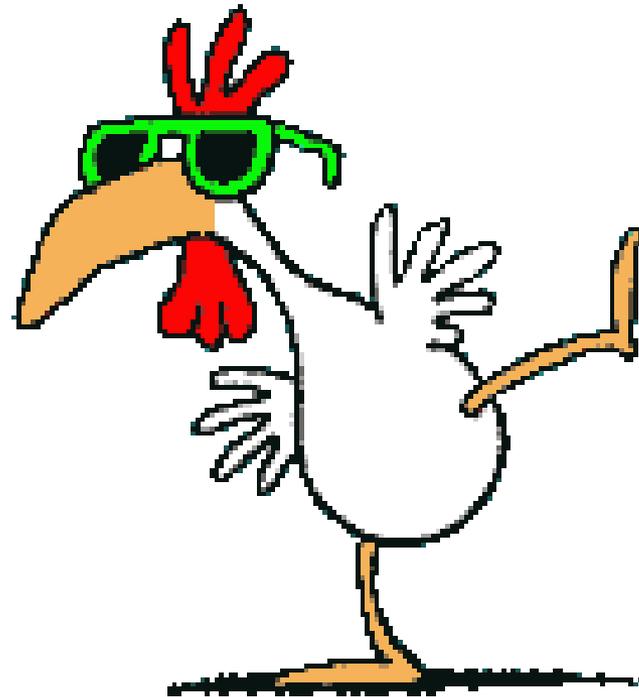
Special Considerations

Because you're special . . .



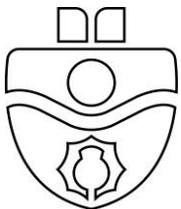
Monitor Glare

- The monitor should be free from glare from outside windows or overhead lights.
- Placing the monitor at 90 or 45 degree angle to windows and tilting it slightly downward will reduce glare.



General Lighting

- Adequate overhead lighting, about the same as your computer screen
- Task lighting to supplement the overhead lighting when necessary.



Glasses

- If your glasses are specifically for computer use, be sure to position the monitor where it is most comfortable.
- Bifocal wearers should be able to view the monitor without bending their necks.



Laptop Users

- When using your laptop in the office, you should be able to connect to an external monitor, mouse and keyboard through a docking station



On the Phone

- If you spend more than 90 minutes a shift on the phone, a headset should be used to avoid neck strain.
- Improper phone usage is one of the most common causes of neck/shoulder pain.



Office of Horrors





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