

Online Resources for Science and Technology

For quick help with specific course material, check out some of the links we've compiled from the web. This list is not exhaustive; there is a lot of information out there. Be careful; websites can be hacked, and links get broken. We always prefer that you meet with a tutor or staff member to address your academic success needs: **ODU Content Tutor information** → <http://www.ohiodominican.edu/arc/ace/>

- Portal to over 20,000 science websites: <http://101science.com/>
- MCAT review has EVERYTHING! <http://mcat-review.org/index.php>
- MIT Video Library: <http://blossoms.mit.edu/videos>
- HUGE repository of science material: [Merlot](http://www.merlot.org/)
- Improve your lab reports: <http://www.ncsu.edu/labwrite/>
- Interactive simulations for science and math: <http://phet.colorado.edu/en/simulations/category/new>

Anatomy and Physiology

- <http://www.innerbody.com/htm/body.html>
- <http://www.bpcc.edu/sciencealliedhealth/humanphysiologylinks.html>: Animation & Tutorial Links
- <http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/P/PNS.html>: Organization of the nervous system
- http://www.youtube.com/watch?v=Rj_qD0SEGGk&feature=youtu.be: Animation of blood flow through the heart
- <http://www.hormone.org/Endo101/page2.cfm>: the endocrine system
- <http://www.anatomyarcade.com/>: learning games
- <http://www.psych.ualberta.ca/~ITL/brain/>: Human Brain Anatomy
- <http://www.eskeletons.org/comparative.html>: All about skeletons
- <http://www.nhlcyberfamily.org/nodes.htm>: All about lymph nodes
- Anatomy self test: <http://msjensen.cehd.umn.edu/Webanatomy/>
- <http://www.khanacademy.org>: Use Subject drop down in top left corner

Biology

- Use Subject drop down in top left corner: <http://www.khanacademy.org>:
- Spark Notes: <http://www.sparknotes.com/biology/>
- How Cells work – with awesome pictures: <http://people.usd.edu/~bgoodman/ReviewFrames.htm>
- Construction of the cell membrane: <http://www.wisc-online.com/objects/ViewObject.aspx?ID=AP1101>
- Biological animations and tutorials: <http://www.sumanasinc.com/webcontent/animations/biology.html>:
- Biology dissections : <http://101science.com/Biodissection.htm>
- Virtual Cell Animation: <http://vcell.ndsu.edu/animations/>
- All about plants; scroll down & click on Lecture topics; lab exercises are also very cool <http://scitec.uwichill.edu/bb/bcs/bl14apl/bl14apl.htm>
- Thermodynamics: <http://ats.doit.wisc.edu/biology/cb/td/td.htm>
- Chemiosmosis, making ATP: <http://ats.doit.wisc.edu/biology/cb/ch/ch.htm>
- DNA from the beginning : <http://www.dnaftb.org/#classical>

- Biology: Mendelian Genetics: <https://www.youtube.com/watch?v=h1x1p5ZF8PE>
- Virtual cell website: <http://vcell.ndsu.edu/animations/home.htm>
- Bio-Interactive: Resources from the Howard Hughes Medical Institute: <http://www.hhmi.org/biointeractive>
- <http://www.biology.arizona.edu/DEFAULT.html>

Chemistry

- <http://www.khanacademy.org>: Use Subject drop down in top left corner
- Converting units : http://enlvm.usu.edu/ma/nav/activity.jsp?sid=nlvm&cid=4_4&lid=272
- Guide to overall understanding of chemistry: <http://www.chemguide.co.uk/index.html>
- All you'll ever want to know about every element: <http://www.webelements.com/>:
- Interactive tutorial on balancing equations <http://www.wfu.edu/~ylwong/balanceeq/balanceeq.html>
- Tutorials from the Chem Collaborative: <http://www.chemcollective.org/tutorials.php>
- Stoichiometry: <http://www.shodor.org/unchem/basic/stoic/>
- General Chemistry videos: <http://www.freelance-teacher.com/videos.htm#GENERALCHEMISTRY>
- Organic Chemistry Help immediately: <http://www.ochem.com/>
- O Chem videos: <http://www.freelance-teacher.com/videos.htm#ORGANICCHEMISTRY>
- Bonding and bond formation: http://users.humboldt.edu/rpaselk/Chem_resrc/BndSup.htm
- Basic Biochemistry: <http://www.biology.arizona.edu/biochemistry/biochemistry.html>
- Biochemistry of metabolism: <http://www.rpi.edu/dept/bcbp/molbiochem/MBWeb/mb1/MB1index.html>
- Medical biochemistry: <http://themedicalbiochemistrypage.org/>
- Oxford University virtual Chemistry: <http://www.chem.ox.ac.uk/vrchemistry/>
- Analytical Chemistry; scroll down for spectrometry models: <http://www.chem.ox.ac.uk/vrchemistry/>

Computer Science

- Basic Digital Literacy: <http://www.gcfllearnfree.org/computers>
- Computer Science Spark Notes : <http://www.sparknotes.com/cs/>
- Khan Academy Computer Science : <http://www.khanacademy.org/cs>
- Creating a Spreadsheet: <http://www.studygs.net/spreadsheet/>
- Creating a Powerpoint: <http://www.wikihow.com/Create-a-PowerPoint-Presentation>
- Creating a Prezi: <https://prezi.com/5w17ge2jovyu/how-to-make-a-prezi-presentation/>
- <https://www.udacity.com/> Udacity

Physics

- <http://www.khanacademy.org>: Use drop down subject menu in top left corner
- ODU student talks through a problem: <https://www.youtube.com/watch?v=7OTx7hljE2g>
- Crashcourse:: <https://www.youtube.com/user/crashcourse/playlists>
- Videos on multiple physics topics: <http://www.freelance-teacher.com/videos.htm#PHYSICS>:
- Vignettes for introductory Physics: <http://www.compadre.org/IVV/collection.cfm>
- Writing strategies for Introductory Physics papers: <http://web.williams.edu/wp-etc/philosophy/jcruz/jcruz/writingtutor/>

- Physics Illuminations:
<http://www.physics.uoguelph.ca/applets/Green/Illuminations/html/IllumMain.html>