Online Resources for Science and Technology

For quick help with specific course material, check out some of the links we've compiled here. This list is not exhaustive. We always prefer that you meet with a tutor or staff member to address your academic success needs. **ODU Content Tutor Info** can be found here: ohiodominican.edu/arc/ace/

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

Anatomy and Physiology

- innerbody.com/htm/body.html
- Animation/Tutorial Link: bpcc.edu/sciencealliedhealth/humanphysiologylinks.html
- Nervous System: users.rcn.com/jkimball.ma.ultranet/BiologyPages/P/PNS.html:
- Blood flow/heart youtube.com/watch?v=Rj_qD0SEGGk&feature=youtu.be:
- The Endocrine System hormone.org/Endo101/page2.cfm
- Learning Games: anatomyarcade.com/
- Human Brain Anatomy: psych.ualberta.ca/~ITL/brain/
- All about skeletons: eskeletons.org/comparative.html
- All about lymph nodes: nhlcyberfamily.org/nodes.htm
- Anatomy self test: msjensen.cehd.umn.edu/Webanatomy/
- Find subject on dropdown: khanacademy.org

Biology

- Use Subject drop down in top left corner: http://www.khanacademy.org:
- Spark Notes: http://www.sparknotes.com/biology/
- How Cells work: http://people.usd.edu/~bgoodman/ReviewFrames.htm
- Construction of the cell membrane: http://www.wisc-online.com/objects/ViewObject.aspx?ID=AP1101
- Animations: http://www.sumanasinc.com/webcontent/animations/biology.html:
- Dissections : http://101science.com/Biodissection.htm
- Virtual Cell Animation: http://vcell.ndsu.edu/animations/
- Plants (under lecture topics): 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
- Mendelian Genetics: https://www.youtube.com/watch?v=h1x1p5ZF8PE
- Virtual cell website: http://vcell.ndsu.edu/animations/home.htm
- Bio-Interactive from Howard Hughes: 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/balanceq.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.gcflearnfree.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
- Codecademy. https://www.codecademy.com/. (There are free programming tutorials based on different programming language. There are also mini quizzes to practice what you are learning.)
- W3C Schools. https://www.w3schools.com/. (This is the best place to learn web technologies. It is also regularly updated.)

- Tutorials Point. https://www.tutorialspoint.com/index.htm. (Tutorials on any programming language like C++, C, Java & Python.)
- Geek for Geeks. https://www.geeksforgeeks.org/. (Tutorials on algorithms and data structures and other programming languages.)
- Leetcode. https://leetcode.com/. (Best place for practicing algorithms and datastructures or to prepare for programming interviews.)
- Coursera. https://www.coursera.org/. (For in-depth study on specialized areas of computer science or software engineering. Best if you study with a friend or in groups.)

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=7OTx7hIjE2g
- 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