



All materials listed below are accessible by students and staff. Students may watch videos upon request from his or her instructor. In addition, many magazines listed below donate magazines on a monthly basis for students to take home.

Fundamentals of Fabrication

- *Race Car Vehicle Dynamics* by William F. Millken & Douglas L. Millken
- *Chassis Engineering* by Herb Adams
- *Pocket Ref* by Thomas J. Glover
- *Practical Mechanics and Strength of Materials* by Leigh and Mangold
- *Welding Principles and Applications* by Larry Jeffus
- *Welding Journal Magazine*
- *4WD Toyota Owner Magazine*
- *The Fabricator Magazine*
- *Performance Racing Industry Magazine*
- *Off-Road Industry Magazine*
- *Dirt Sports Magazine*
- *Front Suspension Geometry Pro* by Auto-Ware
- *Bend Tech Pro* by 2020 Software Solutions
- *Blocking and Smoothing* by Ron Fournier
- *How does a Bilstein Shock Absorber work?* <http://www.youtube.com/watch?v=W4ZZYqRVzLc>
- *Drive shaft velocity* <http://www.youtube.com/watch?v=gmV4qwLfOMY>
- *Ackerman Steering – Explained* <http://www.youtube.com/watch?v=oYMMdjbmqXc>
- *Differentials – Explained* <http://www.youtube.com/watch?v=Hv0jYDWpOZA>



- Transfer Case – Explained <http://www.youtube.com/watch?v=K1qj8dHTmP4>
- Car Steering - Rack and Pinion – Explained <http://www.youtube.com/watch?v=Z1Y14AeifQU>
- Suspension basics/ Alignment http://www.youtube.com/watch?v= D_vq8qnMms
- Perfect Steering <http://www.youtube.com/watch?v=WpZcRbfJIYA>
- How Differential Gear works <http://www.youtube.com/watch?v=K4JhruinbWc>
- Lesson 1 - The Idea of the Center of Gravity - Demonstrations in Physics <https://www.youtube.com/watch?v=YN2oALaRfL4>
- TIG Welding Tips - 3 Tips that Matter Most - Welding Tips And Tricks <https://www.youtube.com/watch?v=UNAAhwieNhU>
- Welding Mild Steel Sheet Metal | TIG Time <https://www.youtube.com/watch?v=zrPIbYnvDdo>
- Modern Marvels - Welding http://www.amazon.com/gp/product/B0050WUYV8/ref=dv_dp_ep9
- Modern Marvels – Aluminum http://www.amazon.com/gp/product/B0050WFI2S/ref=dv_web_yvl_list_pr_1
- American Craftsman <http://vimeo.com/107055609>
- DREAM.BUILD.DRIVE <https://vimeo.com/93566294>
- The Art of Welding - By William Galvery (book)
- Center of Gravity Height - Longacre Racing Products <http://www.longacreracing.com/technical-articles.aspx?item=42586>
- Lazze metal shaping <https://www.youtube.com/user/lazzemetalshaping>
- The Art of Bead Rolling - vol. 1 - Jamey Jordan DVD
- The Art of Bead Rolling - vol. 2 - Jamey Jordan DVD
- Beading Machine Basics - Ron Covell DVD
- Advanced TIG Welding - Ron Covell DVD
- Vintage Race Car Crashes - <https://www.youtube.com/watch?v=yba5kOOXJaM>



- How a HANS Device Works - <https://www.youtube.com/watch?v=8E8BKuLqM9c>
- The Safety Belt in F1 - <https://www.youtube.com/watch?v=BWTLUWW7Bq0>
- 120MPH Mega Crash! – Fifth Gear - <https://www.youtube.com/watch?v=R7dG9UlzeFM>
- Smart Car Crash Test – Fifth Gear - <https://www.youtube.com/watch?v=mnl-LiKctuE>
- Crash Test Month – Crashing Into a Tree at 55mph -
<https://www.youtube.com/watch?v=mWegXQ81TKw>
- Crash Test Month – Flipping a Convertible - <https://www.youtube.com/watch?v=Btv0XqE9za8>
- Crash Test Month – Truck Hitting a Bollard - <https://www.youtube.com/watch?v=HAkCypsQIQk>
- Justin Lofton Vegas to Reno 2015 - <https://www.youtube.com/watch?v=fbiq-tlSeZ0>
- Road to The Mint 400 – Steve Olliges - <https://www.youtube.com/watch?v=blg5VnvBQlg>
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Digital Design and Manufacturing

- *Engineering Black Book by Pat Rapp Enterprises*
- *CNC Machining Magazine*
- *Tool & Manufacturing Engineers Handbook by Society of Manufacturing Engineers*
- *Machining and CNC Technology by Michael Fitzpatrick*
- *Identifying thread pitch and size <http://www.youtube.com/watch?v=Gdvtw0pTAOs>*
- *Thread measurement-The three wire method <http://www.youtube.com/watch?v=QGBRwXwxnuU>*
- *The three wire method video <http://www.youtube.com/watch?v=XnLiTPGE6pk>*
- *Reading the standard micrometer http://www.youtube.com/watch?v=i_jygJkjujE*
- *Dial caliper use http://www.youtube.com/watch?v=uTCoO_1ctj0*



Advanced Composites and Technologies

- *How to Make Carbon Fiber Parts* <https://youtu.be/WnYLwQCizRE>
- *Mold Making for Carbon Fiber Infusion* <https://www.youtube.com/watch?v=YdaAbfHsqHs>
- *Advanced Composites Basic Materials* <https://youtu.be/3HZqrB8oA2U>
- *Carbon Fiber Construction* https://www.youtube.com/watch?v=504I_hJDFck
- *Carbon Fiber Prepreg Layup* https://www.youtube.com/watch?v=TNWZmfJBm_M
- *Wet Layup Process* <https://www.youtube.com/watch?v=Tuv8uiPMKtg>
- *Composite Body Repair* <https://www.youtube.com/watch?v=fd-xLwnUuMM>
- *Concept Car* <https://www.youtube.com/watch?v=T0ewcSIXR4Q>
- *Guide to Vacuum Bagging* <https://www.youtube.com/watch?v=TBa8ZaVwWOI>