Welcome!

Welcome to the Electrical and Computer Engineering Resource Center! Here you’ll find everything you need to know about departmental technical support.

The ECE Resource Center supplies all ECE students with the parts needed to build their class projects (no charge), in addition offers the following support to all ECE students and faculty:

- Parts
- Instrumentation
- Specialized cables and probes
- Technical support - consultation on designs, implementation, and troubleshooting

We will keep the information on this site current, check back often.

PARTS

We have over 7,500 unique items, and over 1 million items in stock!!!

⚠️ The old Google Sheets inventory is no longer being maintained, we are moving to an online ordering system. You can access it at https://rowanengr.com/inventory/

The new system is in the very early stages of implementation and we are prioritizing the importing of components based upon frequency of usage – resistors are first up. We are also implementing parametric search and are getting an exact count of all parts; with over 7500 SKUs, we estimate this will take in excess of a year to fully implement. If the part you are searching for has not yet been added to the system, you can use the "Can't find what you need?" option to submit your request.

If you are looking for assistance with parts ordering you must have a proper documentation package (schematic, circuit analysis or simulation, Bill of Materials with detailed part numbers, all using the proper engineering software, no hand drawn documents). This is to support and encourage proper engineering practices. We do not support guessing engineering.

**No formal documentation = no parts**

Check our inventory **BEFORE** you place an order.

The Resource Center is not self-service and is not open for walk-in service, we offer contact-less ordering and pick up. If you are remote during the pandemic we may be able to ship you the parts you need, email us.

Thank you for your cooperation.

Announcements
The ordering process is being updated, stay tuned for details. In the meantime, parts needed for classes will be aggregated by faculty and submitted en masse.

All parts requests MUST include ECEPR in the email subject line. Emails without this subject line will not be processed.

Please split orders between in stock and out of stock.

**For Classes**

For parts in stock, faculty will aggregate requests referencing our inventory, send it to leonem@rowan.edu, and we will pull the parts.

For out of stock parts, faculty are to aggregate requests and build shopping carts for Mouser, and/or McMaster and email the cart link(s) to leonem@rowan.edu.

For items that are not available from the above listed 2 vendors, you will need to acquire a quote from the vendor. Stay tuned for details on this process. In the interim email leonem@rowan.edu for further instruction.

All sections should be submitting a single combined order to reduce shipping costs and make it easier to track class budgets.

Please indicate the course number and section number(s).

**For Research & Clinic**

All research requests MUST include your funding source (FOPAL), requests received without this number will be discarded.

For parts in stock, please send a list to leonem@rowan.edu referencing our inventory and we will pull the parts for you.

For out of stock parts, please build a shopping cart for Mouser, and/or McMaster and email the cart link(s) to leonem@rowan.edu.

For items that are not available from the above listed 2 vendors, you will need to acquire a quote from the vendor. Stay tuned for details on this process. In the interim email your needs to leonem@rowan.edu for further instruction.

Only one research project per order to allow us to track research budgets.

Check inventory (above) before ordering.

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Starting Fall 2019 you must abide by the new procedures below for any 3D print requests.

The ECE Department has three 3D printers, an Ultimaker 2+, and an Ultimaker 3 and FormLabs SLA. All 3D prints are printed for you. To be placed in the print queue, upload your STL file to the print queue.

Click here to be redirected to the print queue.

For any questions, please contact:
iece3dprinting@rowanengr.com

with the subject ECE3D

Refer to the ECE 3D printing request guide (below) for details and instructions.

Once you receive notification that your part has been finished, you have one week to come and pick up the part. If you do not pick up the part within the one week period it will not be easy for you to request a part in the future. You can track the process of all prints from the print queue.

Rowan ECE Department 3D Printing Guide.pdf

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Please click the document links for more information.

To view either of the template files:

- Click the link(s) below
- Click the download symbol when the next page appears
- Open the file
  - BOM Template.xlsx
  - BOM Explanation.docx

For any questions, please contact: Leonem@rowan.edu

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Starting Fall 2019 you must bring a Bill of Materials (BOM) along with schematics/PCB files if you want the Resource Center to help you with projects/assembly/fab/etc.
We have a variety of technologies available to make PCBs: external fab house, mill in house, and print in house.

If you need a board milled (subtractive process using single or double sided FR-1 bare copper boards) or printed (using a blank FR-4 board, glass, or other non conductive heat tolerant substrates), please contact leonem@rowan.edu. If this is your first in house board, please contact us BEFORE you design your PCB for instructions on DFM.

For boards that are sent to an external fab house, we normally order from PCBWay. For research, each project shall aggregate their project board requests. Details to follow. In the interim contact leonem@rowan.edu for instructions.

If you are familiar with the current process (you have ordered boards and worked directly with Mario after December 2018) you may:

Send board requests to leonem@rowan.edu with the subject line being ECEBR

Ordering Guide

(Note: this guide is under review, a new one will be released shortly, in the interim, email leonem@rowan.edu for direction)
Order Status

PCB:

Stencils: