

C - Small Curricular Revisions : Entry # 3549**Today's Date**

09/09/2025

Your Name

Sean Johnson

Your Email:sjohns12@highpoint.edu**Department Chair Name**

Michael Oudshoorn

Email address of your department chairmoudshoo@highpoint.edu

By checking below I am certifying that my department chair (named above) has seen and approved the courses that are included in this proposal.

Yes

Please select the appropriate school overseeing this proposal:

Engineering

Does this proposal correspond to a particular term?

Spring 2026

Course Prefix, Number, & Name

ECE 4630 Solid State Devices

Does this course currently count towards Gen Ed curriculum?

No

Which category does this change fall under?

- Course description

Changes to course description(s)

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An advanced study of semiconductor devices, including frequency and transient response of single- and multi-stage amplifiers, tuned amplifiers, and negative feedback amplifiers.

Proposed Revised Course Description

This course covers the fundamental principles of semiconductor materials and device characteristics. Topics include lattice structure, energy bands, charge carriers, carrier transport, pn junctions, metal-semiconductor contacts, metal-oxide semiconductor capacitors and field-effect transistors, and bipolar junction transistors.

Rationale for above changes

The new description is a more accurate depiction of what the course covers. The previous description gives topics that are covered and/or introduced in ECE 4200. Also, as this course evolves, it may become an attractive elective course for physics and possibly chemistry students since the material overlaps with topics covered in some of their courses. Preliminary discussions with physics about the potential of this course being taken by their students have started.

Does this change affect any other departments, schools, or programs besides your own? If so, please describe your consultation process with affected parties in the box below.

No. As of now, this only affects electrical engineering students.

Dean Review**[DEAN] I approve/deny this proposal**

Approve

Today's Date

14-09-2025

Name of Dean (if this is being reviewed by multiple deans, please indicate who approved it first here)

Michael Oudshoorn