

DRAFT! Using OER to Create an Integrated CS / Web Development Pathway

Peer Group Meeting: Open Educational Resources, Distance Learning, and Technology |
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Intro / Summary

Slide 2

Intro / Summary

- Dual Enrolled CS / IT Classes in Arlington, VA
- Our school has a unique student body, including full- and part-time students
- We're developing an integrated CS pathway
- Project-based learning:
 - Real projects, real customers
 - Collaboration with professional developers around the world



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Radical Transparency

You can find everything we do (including these slides and a PDF with some extra references, links, etc) on our website:

<https://ict.gracehopper.center>

Hi! I'm an extra note that doesn't appear in the slides.

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CS @ The Grace Hopper Center

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Dual Enrollment

- Our students:
 - Earn normal high school credits
 - Sit for industry certification tests
 - Earn 6 college credits per year-long class
 - Connect with resources and faculty at NOVA
 - Graduate high school with an A.S. in CS

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Integrated Pathway

- Tightly-coupled courses
- Strict pre-requisites
- Python as our “lingua franca”
- Emphasis on full-stack web development
- Online portfolio maintained throughout the pathway

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OER

- Everything we do is based on OER resources that we either find or create
- Class websites <ict.gracehopper.center> licensed under XXXX
- Textbooks released via <https://openbookproject.net/>

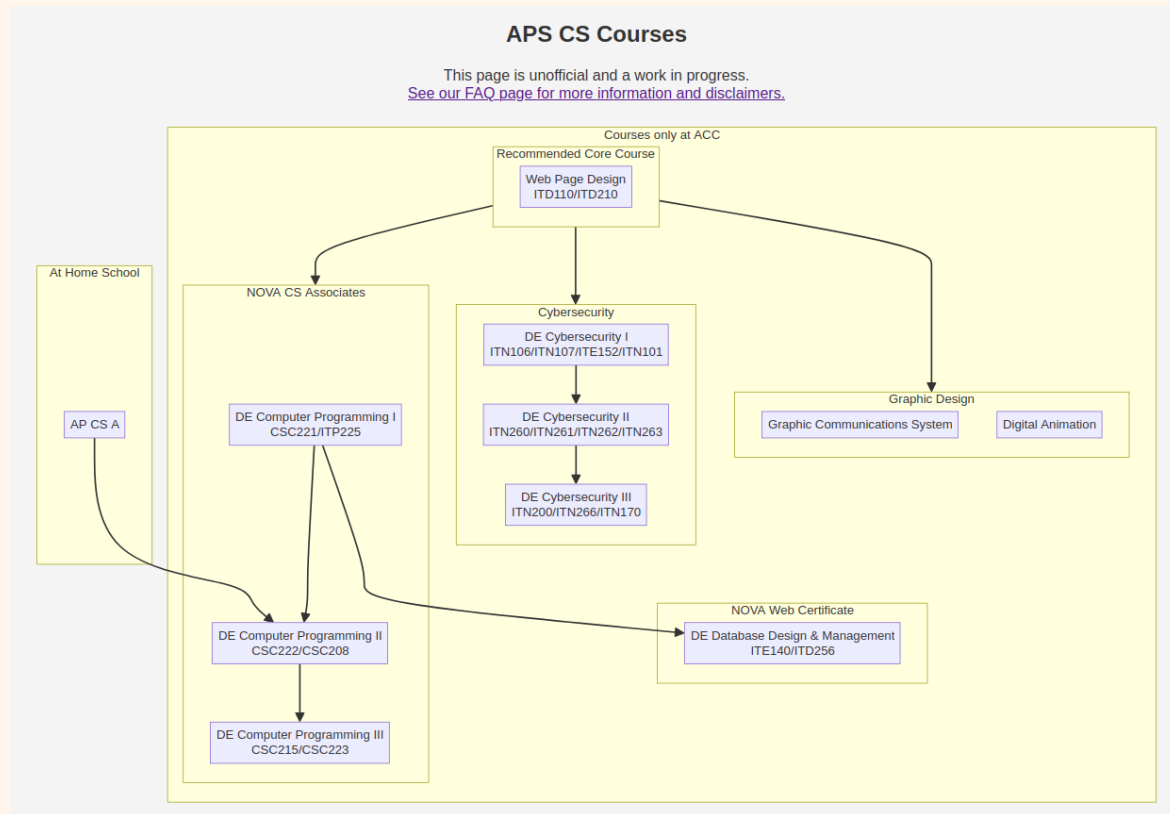
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OER - Student Contributions

- Students are part of the system!
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Our Courses



Full, interactive version is available here: <https://apscs.org/index.html?school=acc>.

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Project Based Learning

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In Theory

- We love it!
- Dogfooding - develop projects that help our own communities
- Technical and durable skills develop together

In Practice

- A few of this year's projects:
 - Arlington 2050 Survey Data Analysis
 - Nova Web Development, Jetro Web Development, Worker Co-ops
 - Django Reservation Systems
 - * <https://culinary.gracehopper.center>
 - * <https://cosmetology.gracehopper.center>