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## INTRO TO TECH & SUSTAINABILITY

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**CEG-115**      **Intro to Tech & Sustainability**      **3 (2-3)**      **Fall**

**Prerequisites:**

**Corequisites:**    CEG-115A<sup>L</sup>

This course introduces basic skills, sustainability concepts and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, professional ethics, and related topics. Upon completion, students should be able to identify drawing elements and create sketches, perform basic engineering computations and identify measures of sustainable development. (2013 FA)

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## PROJECT MANAGEMENT/ESTIMATING

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**CEG-235**      **Project Management/Estimating**      **3 (2-3)**      **Spring**

**Prerequisites:**    CIS-110<sup>S</sup>, CIS-111<sup>S</sup>, CEG-115<sup>S</sup>, EGR-115<sup>S</sup> or EGR-125<sup>S</sup>

**Corequisites:**

This course covers planning and estimating practices which are applicable to the civil engineering and related construction industries. Emphasis is placed on construction project planning and management, material take-offs labor and equipment requirements in accordance with industry formats, and other economic topics. Upon completion, students should be able to accurately complete material take-offs, prepare cost estimates, and prepare construction schedules. (2014 SU)

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## SUBDIVISION PLANNING & DESIGN

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**CEG-230**      **Subdivision Planning & Design**      **3 (1-6)**      **Spring**

**Prerequisites:**    EGR-120<sup>S</sup>, CEG-211<sup>S</sup>, SRV-111<sup>S</sup>

**Corequisites:**

This course covers the planning and design concepts related to subdivisions including analysis of development standards, engineering, and the creation of CAD drawings. Topics include applicable codes, lot creation, roadway system layout, stormwater drainage, low impact development (LID) concepts, and related topics. Upon completion, students should be able to prepare a set of subdivision plans. (2013 FA)

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## TECH & SUSTAINABILITY LAB

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**CEG-115A**      **Tech & Sustainability Lab**      **1 (0-3)**      **Fall**

**Prerequisites:**

**Corequisites:**    CEG-115<sup>S</sup>

This course provides a lab experience that requires students to apply principles of sustainable development and engineering computations, measurement, and drawing to hands-on activities and in actual settings. Emphasis is placed on basic engineering technology and sustainable development topics. Upon completion, students should be able to recognize appropriate technologies for particular projects and scenarios. (2013 FA)