

CAD Department Course Outline

DRFT 2403 – Site Planning and Land Development (S)

Catalog Description:

This course involves the study of civil and landscape details and drawings associated with site planning and land development. Most of this course will include the production of construction documents associated with landscape placement and site planning design using the AutoCAD Civil 3D platform. This course will emphasize student understanding in zoning and site development code requirements and the thought processes involved in creative design.

Prerequisites:

DRFT 1234, DRFT 2114

Credit hours/Contact Hours/Load hours:

3/3/3

Target Audience/Transferability:

This is a required course for the AAS CAD degree with the Civil/Landscape option and is non-transferable

Student Learning Outcomes:

Students will:

- Generate existing contours from spot elevations from real world surveys
- Plot survey boundaries from metes and bounds legal descriptions
- Explain typical City zoning and development codes regulating land development
- Calculate parking requirements for commercial projects
- Design site development plans, including parking layout, entry drives, site utilities, and proposed grading plans.
- Develop landscape planting plans based on minimum city requirements
- Calculate storm sewer sizes based on storm water runoff flow calculations

Topics:

- Topographic survey preparation
- City Zoning and Development Regulations
- City subdivision regulations
- City master street plans and master land use plans
- Commercial site design
- Storm sewer design
- Flood plain elevation certificates

Forms of Assessment:

- Completion of several small drawing assignments
- Tests/quizzes on commands and concepts
- Final Project submitted electronically and on paper

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