IT392/IT494c
Facilities Planning
Industrial Technology Outreach Program

Instructor: **David T Williams**
Class Hours: Weekend format
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Text: Facilities Planning 3rd Edition (ISBN 0-471-38937-4) Tompkins, White, Bozer, and Tanchoco

The text is optional but the instructor has the attitude that it would be difficult to accomplish the course objectives lacking the text. Also the text is referenced to in the classroom instruction. In some cases, the text can be used during the assessment. If you do not have the text then you will not have this resource and sharing of resource material is not allowed.

Course Objective

The objective of this course is to provide students with the skills necessary to develop a facilities plan. The engineering design process includes plant layout and material handling principles. Various methods and techniques will be introduced and utilized to analyze the flow efficiency of a proposed plant layout which is the course product produced in the **IT494c**.

Course Format

This course will primarily be conducted in the form of lectures and in-class discussions. **This course will use the Blackboard online learning tool.** The student will be required to sign up for Blackboard and this function is handled by the library staff. Any difficulties in completing this process can be handled by the help desk associated with the Blackboard system.

A major team project report and presentation is required and listed as course IT494c.

Work related to the project will be turned in periodically as lab/web assignments. Experience using AutoCAD, Microsoft Project, and Microsoft Visio is highly encouraged and recommended.

The instructor reserves the right to modify the course and content if necessary.

Grading Policy Grading Assignments:

attendance - 10%	
homework - 15%	A: 90- 100%
lab/web assignments - 15%	B: 80- 89%
exam #l- 30%	C: 70-79%
exam #2- 30%	D: 60-69% below 59 is an F

The assessment for the final project will be posted on Blackboard. Also the project will be assessed for spelling, grammar, composition, and professional appearance. The project should be of a quality of work that you could show a potential employer or current employer to demonstrate your skills. This could help you attain employment or move up in your current employment.

No incompletes will be given unless unusual circumstances dictate this conclusion.
No late homework will be accepted. If a situation arises that requires the student to miss the class. This must be approved by the instructor in advance. Regardless of the reason for missed class, the student will be required to complete make up work in addition to the regular assignments. This make up work consists of an outline of the chapters covered in the missed class periods. The student will submit the outline by completion of the course and will be subject to the approval of the instructor. If the outline is evaluated and does not adequately depict the chapter, it will be given back to the student for revisions until acceptable.

No make-up exams unless prior approval is given by instructor.

Course Competencies – At the completion of this course the student should or will demonstrate (the, a)

• design an efficient plant layout based on material flow and material handling equipment.
• make recommendations on improvements to existing plant layouts from the standpoint of material handling and product flow.
• utilizing design flexibility into a plant layout to accommodate changes in product volume or product line.
• understand and be able to complete the following charts with regard to a specific product: assembly chart, route sheet, operations process chart, from-to chart and activity relationship chart.
• understand the information necessary to determine the overall plant rate based on production volumes.
• know how to calculate equipment requirements for a specific process.
• understand the benefit of an efficient material handling system and understand what effect process layout has on the material handling system.
• determine the storage and warehousing requirements based on the type of product and demand characteristics for that product.