University of South Alabama
School of Computing

# ITE 485 Senior Demo Project
# Special Permission Form

Please see the Course Description and Project Requirements and Guidance on the back of this page.

Students must either be in their last or next to last semester to enroll in this course and preferably have completed their focus track. Students must submit this approval form to the School of Computing office before the closed course override will be processed.

**Please print clearly:**

Jag ID: J00_____

Last Name: _____ First Name: _____

Semester/Year you wish to enroll: (select) ☐ Fall ☐ Spring Year: _____

Please summarize two possible project ideas below. A 485 project should be something that has the following characteristics:

1. uses technology skills you have learned in school
2. extends those skills by also using a new technology component beyond what you learned in your coursework
3. solves or improves a problem that does not already have ready or feasible solutions
4. will serve as a portfolio item that you can discuss/show in a job interview with a potential employer (or grad school application/interview) to help you get the type of job you want.

1. _____

_____

2. _____

_____

Prerequisites: ITE 480 and ITE 370.

*I satisfy all of the requirements for enrolling in ITE 485 and will be in either my last or next to last semester.*

Student Signature: _____

Date: _____

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For SoC Use:

ITE Coordinator Signature: _____ Date Override Entered: _____

Approval Date: _____

# ITE 485 Project Requirements and Guidance

ITE 485 Senior Demonstration Project is a senior capstone project that provides a student experience in applying problem requirements and specifications to produce a solution. This requires exploration of suitable information technologies to produce a solution that improves the problem situation. Students will analyze, plan, and report on the project and implement a working prototype that will be demonstrated to an audience at the end of the semester. Wherever possible, students should seek out a project related to their chosen focus track.

The project should be based on three essential components - demonstration of a new technology, results of needs analysis, and a deep understanding of one or more technology evaluation methods.

Students are expected to utilize their skills learned in past coursework *as well as* extend their skillset during the semester that ITE 485 Senior Demo is taken. This means that you will be expected to pick up new skills and / or produce a working prototype that is much more complex than what you have created in previous courses. Merely repeating the equivalent of a previous project in an upper-division course is not acceptable. In the event that a real client is utilized for completion of a simple project, the instructor and the program coordinator reserve the right to require additional components to be added to ensure that the course objectives are met. When real clients are used, the project deliverables should be documented and signed by the client.

The following project examples should serve as a guideline as to the expected complexity of acceptable projects:

**Programming-based projects** (e.g. event-driven GUI interface) should contain:

- Multi-form interface utilizing a multi-table (>2), normalized relational database with appropriate input validation, error-checking, query capabilities, etc.
- Reporting capabilities based on user needs.
- Interface should utilize good HCI principles and have a professional appearance.

**Web-based projects** should contain:

- Multi-page site utilizing good HCI/Web principles and have a professional appearance
- Normalized, multi-table database with database connection to host site data and relevant information
- Data entry form for user input such as “contact us” form, site comments, forums, etc. with appropriate error checking and input validation
- CMS for client management to allow for ongoing updates post project implementation

**Forensics-related projects** should consist of:

- Cannot be a repeat of previous labs
- May include a GUI front-end via website or application for command-line tools but must utilize good HCI principles, have a professional appearance, provide error checking, etc.
- May be a combination of scripting utilities to provide a solution to accomplish forensics investigation related tasks or to solve a problem

**Networking-related projects** should consist of:

- Cannot be a repeat of previous labs
- May include a GUI front-end via website or application for command-line tools but must utilize good HCI principles, have a professional appearance, provide error checking, etc.
- May be a combination of scripting utilities to provide a solution to accomplish network administrator related tasks or to solve a problem