MASTER SYLLABUS

CITA 481 - SENIOR PROJECT IN INFORMATION TECHNOLOGY

Created by: Minhua Wang
Updated by: Minhua Wang
A. **TITLE:** Senior Project in Information Technology

B. **COURSE NUMBER:** CITA 481

C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

   # Credit Hours: 6
   # Lecture Hours: per week
   # Lab Hours: per week
   Other: Approximately 240 project activity hours’ student needs to maintain the activity log and the faculty mentor is responsible for monitoring the student activity. per week

   Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** No

E. **GER CATEGORY:** None

F. **SEMESTER(S) OFFERED:** As required

G. **COURSE DESCRIPTION:** This course is an alternative course for students in Information Technology program who cannot find a 12-credit Internship position. The course requires extensive project development work to integrate the specialized skills and knowledge presented throughout other courses in the Information Technology curriculum. Under the guidance of a faculty mentor, the student prepares a project proposal, conducts literature review and project implementation, submits a project report, and makes an oral presentation.

H. **PRE-REQUISITES/CO-REQUISITES:**

   a. Pre-requisite(s): Senior status in Information Technology program
   b. Co-requisite(s): none
   c. Pre- or co-requisite(s): none

I. **STUDENT LEARNING OUTCOMES:**

   By the end of this course, the student will be able to:

<table>
<thead>
<tr>
<th>Course Student Learning Outcome</th>
<th>PSLO</th>
<th>ISLO</th>
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<tbody>
<tr>
<td>a. Use the knowledge learned from courses taken in IT curriculum and apply it to implement a senior-level project in the field</td>
<td>3. Demonstrate a solid understanding of the methodologies and foundations of IT</td>
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<tr>
<td>b. Identify and operate with the required steps to complete the project</td>
<td>3. Demonstrate a solid understanding of the methodologies and foundations of IT</td>
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<tr>
<td>c. Prepare a literature review on the project topic</td>
<td>3. Demonstrate a solid understanding of the methodologies and foundations of IT</td>
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I. Project Topic
   A. Select Information Technology project topic
   B. Develop project timeline
   C. Review of evaluation criteria on project
   D. Written project proposal

II. Literature Review
   A. Identify potential literature sources with college reference librarian
   B. Review of physical literature, including books, journals, and other sources
   C. Review of electronic literature, including reliable Web resources

III. Implementation Methodology
   A. Develop any appropriate implementation questions and/or hypotheses
   B. Determine what data and other information are necessary for the project
   C. Determine what technical assistance and/or equipment is needed

IV. Project Implementation
   A. Implement the project
   B. Assess and evaluate the project implementation
   C. Identify future areas of implementation work

V. Project Report
   A. Study the project report guideline
   B. Formulate the report
   C. Review and revise the report with the faculty mentor

VI. Oral Presentation
   A. Arrange the oral presentation with faculty
   B. Prepare the presentation
   C. Defend the project through the oral presentation
Q. LABORATORY OUTLINE: N/A!