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| **School or Division** | School of Business and Technology |
| **Program or Certificate or** | Choose an item. |
| **New degree or certificate program** | BAS, Information Systems Technology |
| **Proposed by (faculty only)** | Andrew Blitz, James Stewart, Vincent Butler |
| **Presenter (faculty only)** | Andrew Blitz |
| Note that the presenter (faculty) listed above must be present at the Curriculum Committee meeting or the proposal will be returned to the School or Division and must be submitted for a later date. |
| **Submission date** | 1/4/2016 |
| **Course prefix, number, and title** | CET 4505 Computer Operating Systems |

**Section I, New Course Information (must complete all items)**

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| **List School or Division** | School of Business and Technology |
| **List course prerequisite(s) and minimum grade(s)(must include minimum grade if higher than a “D”)** | None |
| **Will students be taking any of the prerequisites listed for this course in different parts of the same term (ex. Term A and Term B)** | No |
| **List course corequisites** | None |
| **Is any corequisite for this course listed as a corequisite on its paired course?**(Ex. CHM 2032 is a corequisite for CHM 2032L, and CHM 2032L is a corequisite for CHM 2032) | NoList the corequisite |
| **Course credits or clock hours** | 3 Credits |
| **Contact hours (faculty load)** | 3 |
| **Select grade mode** | Standard Grading (A, B, C, D, F) |
| **Credit type** | College Credit |
| **Course description** (provide below) |
| THIS COURSE IS A STUDY OF THE FUNDAMENTAL CONCEPTS, STRUCTURES AND ORGANIZATIONS OF OPERATING SYSTEMS. IT INCLUDES THE STUDY OF PROCESSES, THREADS, MULTI-TASKING, CONCURRENCY AND DEADLOCKS, MEMORY MANAGEMENT AND FILE MANAGEMENT ALONG WITH VIRTUALIZATION. |

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| **General topic outline** (type in outline below) |
| * OPERATING SYSTEM OVERVIEW
* PROCESS DESCRIPTION AND CONTROL
* THREADS, SMP AND MICROKERNEL
* CONCURRENCY: MUTUAL EXCLUSION AND SYNCHRONIZATION
* VIRTUAL MEMORY
* I/O MANAGEMENT AND DISK SCHEDULING 9.FILE MANAGEMENT
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**Learning Outcomes:**For information purposes only. Type in all learning outcomes, assessments, and general education competencies as they should be displayed in the syllabus. More rows can be added if necessary.

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| **Learning Outcomes** | **Assessments** | **General Education Competencies** |
| UNDERSTAND THE ARCHITECTURE OF A COMPUTER AND HOW IT COMMUNICATES WITH SOFTWARE | Quizzes and Exams |  |
| IDENTIFY PROGRAMMING PROBLEMS IN OS SUCH AS DEADLOCK AND HOW TO SOLVE SUCH PROBLEMS | Quizzes and Exams |  |
| IDENTIFY PROGRAMMING PROBLEMS IN OS SUCH AS DEADLOCK AND HOW TO SOLVE SUCH PROBLEMS | Quizzes and Exams | CT |
| MAKE COMPARISONS BETWEEN DIFFERENT OPERATING SYSTEMS AND THE WAY THEY COMMUNICATE WITH THE HARDWARE | Written Assignments  | COM |

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| **ICS code for this course** | ADVANCED AND PROFESSIONAL - 1.16.07 - COMPUTER & INFO SCIENCE |
| **Should any major restriction(s) be listed on this course? If so, select "yes" and list the appropriate major restriction code(s) or select "no".** | YesBAS, IST |
| **Is the course an “International or Diversity Focus” course?** | No, not International or Diversity Focus |
| **Is the course a General Education course?** | No |
| **Is the course a Writing Intensive course?** | No |
| **Is the course repeatable\*?**(A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3 credit hour course can be repeated 1 time and a student can earn a maximum of 6 credits). \*Not the same as Multiple Attempts or Grade Forgiveness | NoIf repeatable, list maximum number of credits |
| **Do you expect to offer this course three times or less (experimental)?** | No |

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| **Impact of Course Proposal** |
| **Will this new course proposal impact other courses, programs, departments, or budgets?** | No |
| **If the answer to the question above is “yes”, list the impact on other courses, programs, or budgets?** | List impacts here |
| **Have you discussed this proposal with anyone (from other departments, programs, or institutions) regarding the impact? Were any agreements made? Provide detail information below.** |
| This is a core course in the proposed BAS, Information Systems Technology (IST) degree. The degree would benefit existing AS Programming and AS Networking graduates by providing an alternative baccalaureate degree option that would allow them to maximize the transfer of credits. Neither the proposed course nor the proposed degree would negatively impact FSW, the School of Business and Technology, or any FSW students or graduates. The proposed BAS, IST degree was discussed with both Florida Gulf Coast University and Hodges University and neither institution foresaw any negative impact to themselves. |

**Section II,Justification for proposal**

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| **Provide justification (below) for this proposed curriculum action** |
| This course is a core course in the proposed BAS, Information Systems Technology degree. |

**Section III, Important Dates and Endorsements Required**

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| **List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).** |
| Andrew Blitz, James Stewart, Vincent Butler |

**nOTE:**Changes for the Fall 2016term must be submitted to the Dropbox by the February 5, 2016 deadline and approved no later than the March 4, 2016 Curriculum Committee meeting. Changes during mid-school year are NOT permitted. Extreme circumstances will require approval from the appropriate Dean or Associate Vice President as well as the Provost and Vice President of Academic Affairs to begin in either theSpring2016 or Summer 2016 term.

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| **Term in which approved action will take place** | Fall 2016 |

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| **Required Endorsements** | **Type in Name** | **Select Date** |
| **Department Chair or Program Coordinator/Director** | Andrew Blitz | 1/4/2016 |
| **Academic Dean or Associate Vice President** | John Meyer | 1/8/2016 |

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| **Select Curriculum Committee Meeting Date** | February 5, 2016 |

Completed curriculum proposals must be uploaded to Dropbox by the deadline. Please refer to the *Curriculum Committee Calendar* document available in the document manager in the FSW Portal:

* Document Manager
* VP Academic Affairs
* Curriculum Process Documents

**Important Note to Faculty, Department Chairs or Program Coordinators, and Deans or an Associate Vice President:**

Incomplete proposals or proposals requiring corrections will be returned to the School or Division. If a proposal is incomplete or requires multiple corrections, the proposal will need to be completed or corrected and **resubmitted to the Dropbox for the next Curriculum Committee meeting**. All Curriculum proposals require approval of the Provost and Vice President of Academic Affairs. Final approval or denial of a proposal is reflected on the completed and signed Summary Report.