



**FLORIDA INTERNATIONAL UNIVERSITY
UNIVERSITY CURRICULUM COMMITTEE**
Proposal for a New Course

DO NOT TYPE IN THIS BOX

Bulletin # : 3

Academic Year : 2019-20

1. School/College Engineering and Computing
 Div./Dept. in Which Taught School of Computing and Information Sciences

2. CGS 2 XXX 3 CIP Code (Leave this blank): _____
 Alpha Prefix 1st Digit Last 3 Digits "C"-lec-lab "L"-Lab Cr. Hrs.

3. Grading Method (select one): Graded Pass/Fail

4a. Course Title IT Fundamentals

b. Abbreviated course Title (for computer class schedules, transcripts) IT Fundamentals
LIMITED TO 25 Characters (including spaces)

5. Statewide Course Numbering Subject Matter Area CGS (Computer General Studies)

6. Catalog Description/Major Topics (not to exceed 200 characters including spaces)
College of Medicine and College of Law: Attach description not exceeding 1,000 characters including spaces.

This course is designed to prepare students with the required knowledge to design, assemble and install the hardware and software needs of an organization. Not acceptable for SCIS majors.

7. Attach detailed syllabus course outline and course justification on separate page(s).

8. Prerequisite(s): None

9. Corequisite(s): None

10. Objective(s) of Course:

Please see the attached syllabus.

11. Does this course duplicate/overlap other courses at FIU? No Yes
 If yes, please explain: n/a

12. What other closely related department(s) have been consulted about this course?
n/a

13. Is this course used for the assessment of a program or a certificate (if yes, then send a notification to assessment@fiu.edu)? No Yes

PROPOSAL REQUESTED BY:

Faculty Contact	<u>Michael Robinson</u>		<u>11 / 25 / 2019</u>
	<small>(Type name)</small>	<small>(Signature)</small>	
	<u>michael.robinson@cs.fiu.edu</u>	<u>305-348-7523</u>	
	<small>(Email address)</small>	<small>(Phone number)</small>	
Chairperson (Dept./Div.)	<u>S.S. Iyengar</u>		<u>11 / 25 / 2019</u>
	<small>(Type name)</small>	<small>(Signature)</small>	
Chairperson (Curr. Comm.)	<u>Wei-Chiang Lin</u>		<u> / / 2019</u>
	<small>(Type name)</small>	<small>(Signature)</small>	
College/School Dean	<u>John Volakis</u>		<u>12 / 10 / 2019</u>
	<small>(Type name)</small>	<small>(Signature)</small>	

Submit one original form. Attach one copy of the course justification and course syllabus, course description, objectives, major topics and textbooks.

IT Fundamentals - Course Justification

FIU Embrace is a university-wide initiative that promotes health, wellness, and overall functioning for adults with developmental disabilities, such as autism spectrum disorder (ASD), intellectual disabilities (ID), and other neurodevelopmental disorders (OND). It seeks to help these persons lead healthy lives and maximize their individual potential across their lifespan.

FIU Embrace utilizes a person-focused, household-centric approach, recognizing that people with developmental disabilities deserve to be treated as individuals with personal patterns of talents and challenges. Through education and dissemination, services, and research opportunities, we strive to positively impact the lives of individuals affected by developmental disabilities, their families, and learners. FIU Embrace is a part of the Office of Research and Economic Development (ORED), and is an initiative consistent with the University's vision for inclusion and embracing the diversity of our Miami community.

This new course IT Fundamentals is a required course for the FIU Embrace Technology Certification Program (as shown in the course flowchart of this program) and is not acceptable for SCIS majors.

School of Computing and Information Science

Course Title: IT Fundamental

Date: 11/22/2019

Course Number: CGS 2XXX

Number of Credits: 3

Subject Area: IT Certifications	Subject Area Coordinator: Michael Robinson email: michael.robinson@cs.fiu.edu
Catalog Description: This course is designed to prepare students with the required knowledge to design, assemble and install the hardware and software needs of an organization. Not acceptable for SCIS majors.	
Textbook: None. Reading materials will be distributed throughout the semester	
References: Online resources	
Prerequisite Courses: None	
Corequisite Courses: None	

Type: Required for Embrace.

Audience: For non-SCIS undergraduate students will be exposed to the course materials listed in the course outline. Students from any non-SCIS majors are accepted.

Prerequisite Topics:

- None

Course Outcomes:

Students who successfully complete this course will be able to:

1. Be familiar with the Fundamentals in the IT industry.
2. Be familiar with the design, construction, upgrades, repairs, and warranties steps of Clients/Workstations computers.
3. Be familiar with the design, construction, upgrades, repairs, and warranties steps of Laptop computers.
4. Be familiar with how CAT network cables are made.
5. Be familiar with the design, construction, upgrades, repairs, and warranties steps of Server computers.
6. Master installation and setup of Operating Systems and user software.
7. Be familiar with the design, construction, installation, and maintenance of computer networks.
8. Be exposed to A+ 1001 rules and concepts.

Outline:

Topic	<u>Hours (Total: 37.5 hours = 15 weeks * 2 lectures/week * 1.25 hrs/lecture)</u>	<u>Outcome</u>
1. Introduction: Why IT Fundamentals?	1	<u>1</u>
2. Clients/Workstations: Design and Construction from the Ground up, upgrades, repairs, and warranties.	3	<u>1,2</u>
3. Laptops: Design and Construction from the Ground up, upgrades repairs, and warranties.	3	<u>1,3</u>
4. Understanding and making CAT Cables using RJ45 connectors and multiple tools	2	<u>1,4</u>
5. Servers: Understanding the Design and Construction from the Ground up, upgrades repairs, and warranties.	1	<u>1,5</u>
6. Servers Operating Systems Installation.	1	<u>1,6</u>
7. Servers Creating users and rights.	2	<u>1,6</u>
8. Clients/Nodes Operating Systems Installation.	2	<u>1,6</u>
9. Clients/Nodes Software Installation.	2	<u>1,6</u>
10. Connecting Servers to Switches.	.5	<u>1,6</u>
11. Connecting Clients/Nodes to Switches.	.5	<u>1,2,3,6</u>
12. Installing and connection Power Backups.	.5	<u>1,7</u>
13. Printers Network/Local cabling and installations	1.5	<u>1,7</u>
14. Making 3 Unique Server Quotes	2	<u>1,5,7</u>
15. Desktops, Laptops, A+ 1001 sect 0 & 1.1	2	<u>1,8</u>
16. Laptops A+ 1001 sect 1.2 thru 1.7	2	<u>1,8</u>
17. Covering A+ 1001 sect 2.1 thru 2.4	2	<u>1,8</u>
18. Covering A+ 1001 sect 2.5 thru 2.8	2	<u>1,8</u>