



March 28, 2011

MEMORANDUM

TO: District Board of Trustees
FROM: Jim Murdaugh, President 
SUBJECT: Academic Programs and Courses

Item Description:

This is the annual presentation of changes in the curriculum.

Overview:

As part of the annual program review, each division revises course offerings to assure currency and relevancy. The Academic Affairs and Curriculum Committee reviews recommendations in accordance with state policy, accreditation requirements, and college mission. The Committee presents the Board with the attached recommendations. The Board has the responsibility for approval and discontinuance of courses and programs in accordance with law and rule.

Salient Facts

The new programs approved last year are continuing in development. This year new certificates in manufacturing have been proposed to begin in fall term. Several degrees have been modified to reflect current learning needed in the workplace. Science lab courses have been modified to improve the teaching/learning process for the courses.

Past Actions:

The Board approves curricula annually.

Future Actions:

The Board will be provided with periodic reports on goals and assessment of programs as part of the strategic plan process.

Funding/Financial Matters:

No new costs to the college are associated with these proposals.

Staff Resource:

Barbara Sloan

Recommended Action:

That the Board approve the recommendation for academic course and program changes for the 2011-2012 academic year.

NEW PROGRAMS

Alternative Energy Systems Specialist Certificate (18 credit hours)
CNC Machinist Certificate (17 credit hours)
Composite Fabrication and Testing Certificate (16 credit hours)
Electronics Aide Certificate (16 credit hours)
Lean Six Sigma Green Belt Certificate (16 credit hours)
Pneumatics, Hydraulics and Motors for Manufacturing Certificate (16 credit hours)

PROGRAM DELETIONS

None

PROGRAM CHANGES

AAS Degree in Business Management proposed changes remove courses that are being phased out as the curriculum is updated in response to changing trends. Remove these courses as available electives: MKA 1021 Principles of Salesmanship; MAR 1053 Marketing for Non-Profit Organizations; MAN 1023 Management for Non-Profit Organizations; SPC 1017 Interpersonal Communications (SPC 1062 required instead); REE 1041 Real Estate Principles and Practices II; MNA 2100 Human Relations; MAR 2340 Resources Development; MAN 2582 Introduction to Project Management; GEB 2893 Strategic & Policy Issues in Non-Profit Organizations; FIN 2010 Investments

AS Degree in Web Technologies (63 credit hours) and Certificate in Web Technologies (33 credit hours) proposed changes provide students with current skills relevant to the discipline and eliminate courses not needed in the discipline.

Add these courses: PGY2801C Intermediate Photoshop
GRA 1131C Multimedia Graphics
Delete these courses: CTS 2106 Introduction to Unix
CGS 2069 Starting a Business on the Internet

AS Degree in Computer Programming and Gaming proposed changes provide students a better pathway from the Computer Programming Specialist Certificate to this Degree.

Add as core program requirement: COP 2800 Introduction to Java Programming
Delete one elective (3 credits) to maintain program length

Certificate in Computer Programming & Analysis proposed changes update offerings to skills currently needed in the field.

Add these courses: COP 2221 Intermediate C++ Programming
Increase Elective options by one course (3 credits)
Delete these courses: COP 2332 Visual Programming
CTS 2441 Database Programming

NEW COURSES

CRW 2002 Creative Writing II (3)

EET 1084C Introduction to Electronics (3)

ETI 1701 Industrial Safety (3)

EET 1551 Distributed Electric Power Generation and Storage (3)

EST 1830 Alternative/Renewable Energy Technologies (3)

EST 1800 Solar Thermal Technology (3)

EETC 2550 Photovoltaic Technology (3)

PMT 1250C Introduction to Computer Numerical Control (CNC) (3)

PMT 2254C Computer Numerical Control (CNC) Programming II (4)

ETI 1622 Concepts of Lean Manufacturing and Six Sigma (3)

ETI 2469C Composite Fundamentals (3)

ETI 1830C Manufacturing Processes and Materials (3)

ETI 2464C Advanced Composites (3)

EET 1015C DC Circuits (4)

EET 1025C AC Circuits (4)

EET 2140C Solid State Electronics (4)

CET 1114C Digital Fundamentals (4)

ETI 1622 Concepts of Lean Manufacturing and Six Sigma (3)

ETI 1628 Development of Self-Directed Work Teams (3)

ETI 2623 The Lean Enterprise for the Expert (3)

ETI 2670 Technical Economic Analysis (3)

EST 1511C Motors and Controls (3)

ETM 2315C Hydraulics and Pneumatics (4)

COURSE DELETIONS

All catalog offerings are current and are currently offered; no deletions requested.

COURSE CHANGES

- Change BSC2011C Biology for Science Majors II (4 credits) to BSC2011 (3 credits) and BSC 2011C (1 credit) to provide more flexibility for student scheduling and to align with the format of the majority of other colleges and universities in the state as well as with BSC2010 and BSC2010L at TCC.
- Change CHM 1046 (3 credits) from 3 to 4 contact hours. The proposed change provides an additional contact hour for students to work in a small group setting with the instructor. Also change CHM 1046L (2 credits, 4 contacts) to 1 credit and 3 contact hours. This change follows a redesign of the laboratory component to emphasize opportunities for students to actively participate in scientific inquiry. This change aligns the credit hours for the lab course with the majority of other colleges and universities in the state, thus improving the ease of transfer to TCC. It also aligns with CH 1045 and CHM 1045L.

- PGY2801C – Photoshop – remove prerequisite (GRA1131C)
 - With changes in software and photo editing techniques, GRA1131C no longer prepares students adequately for the Photoshop course (PGY2801C). All needed concepts are now part of the PGY2801C course, thus, eliminating the need for any prerequisite.
- CAP2023 – Introduction to Computer Gaming – remove prerequisite (COP2220)
 - The focus of the programming techniques used in CAP2023 now deems COP2220 (Introduction to C++ Programming) not needed in order for the students to be successful in the class. COP2220 is taught as a first programming language and introduces the students to procedural programming. The software in CAP2023 is OOP (different approach to programming).
- CAP2024 – Advanced Game Programming – add prerequisite (CGS2525)
 - CGS2525 (Advanced Multimedia) covers ActionScript which is the programming language used to create OOP items within the gaming environment.
- CTS2531 - Introduction to Network Administration & Management – add prerequisite CGS1560 (Operating Systems)
 - Without an understanding of a computer's operating system, a student cannot fully understand how to administer a network. The operating system is at the crux of administration techniques.
- CGS1540 - Introduction to Database Management – add prerequisite (MAT1033)
 - Students basic problem solving skills similar to those acquired in MAT1033.
- HSC2531 – Medical Terminology – add prerequisite (REA0002)
 - This course is a college level course that involves a large amount of reading and vocabulary. Students need to be at college level reading.
- HIM classes – add CGS2100 as an alternative prerequisite (CGS1060 is the current prerequisite)
 - Both courses cover the Office Suite fundamentals
- Add HIM1102 as a prerequisite to HIM2304
 - HIM2304 is the capstone course (Project Management) to the HIS certificate. Without any knowledge of the HIM area – trying to complete a project makes no sense.
- GRA2203 – Digital pre-press & GRA2121 Professional Desktop Publishing – remove prerequisite (GRA1206C) – course redesign has included needed competencies and eases student access to these courses.