

**EL CAMINO COLLEGE
MINUTES OF THE COLLEGE CURRICULUM COMMITTEE
SEPTEMBER 23, 2008**

Present: F. Arce, J. Davidson, A. Himsel, R. Hughes, L. Kjeseth, M. Lipe, V. Lloyd,
E. Martinez, C. Mosqueda, S. Panski, V. Rapp, J. Thompson, J. Young

Absent: C. Somin, V. Rapp

Ex-Officio Members Present: Q. Chapman, D. Charles, M. Hall, L. Suekawa

Ex-Officio Members Absent: C. Brinkman, R. Smith

Also Present: J. Harmon, D. Goldberg, B. Jaffe, N. Lee, M. Odanaka

CALL TO ORDER

Chair Young called the College Curriculum Committee (CCC) meeting to order at 2:30 p.m.

APPROVAL OF MINUTES

Chair Young asked the Committee if there were any corrections to the minutes and called for a motion to approve the minutes as written. J. Thompson moved, E. Martinez seconded, and the motion carried.

CHAIR'S REPORT

- The first reading of the revised Bylaws took place at the Academic Senate meeting on September 16th.
- There will be a second reading of the Bylaws at the next Senate meeting.
- Chair Young opened the discussion regarding the possibility of revising the Bylaws to include a student representative from the Compton Center on the CCC.
- She stated that the student representative would be an Ex-Officio (non-voting) member.
- The Committee was in favor of revising the Bylaws.
- Chair Young asked for a motion to approve the revision to the Bylaws. A. Himsel moved, L. Kjeseth seconded, and the motion carried.
- Chair Young informed the Committee that along with L. Kjeseth and Q. Chapman, she attended a third CurricUNET demonstration this week.
- The college will continue to input courses into CurricuWare, in an effort to migrate course outlines of record electronically into CurricUNET.

CURRICULUM REVIEW

Mathematical Sciences Proposals

- Dean D. Goldberg took the podium to present proposals for Mathematics 41A, Mathematics 41B, Mathematics 191, and Mathematics 220.
- He distributed an errata sheet and explained each section where revisions were made to the course proposals, and course outlines of record.
- D. Goldberg fielded a question from the Committee on the catalog description for Mathematics 220. No changes were made.
- Chair Young asked for a motion to approve the proposals. J. Thompson moved, M. Lipe seconded, and the motion carried.
- Chair Young then asked for a motion to approve the conditions of enrollment for Mathematics 41A, Mathematics 41B, Mathematics 191, and Mathematics 220. M. Lipe moved, J. Thompson seconded, and the motion carried.

CCC PACKET

Transfer Course Agreement (TCA)

- Chair Young directed the Committee's attention to the handouts for the meeting.
- She began with a copy of the 2008-2009 Transfer Course Agreement (TCA) message forward by L. Suekawa, Articulation Officer.
- Chair Young then congratulated divisions on their TCA approvals.
- L. Suekawa then explained that the next cycle of course submissions for proposed UC Transfer will take place in December.

Cooperative Work Experience Education (CWEE) Template

- Chair Young explained that the CWEE template will be used to make revisions to courses formerly known as Cooperative Career Education (CCE), based on the new Title 5 regulations.
- The packet included the CWEE course outline template, Title 5 language, and a list of El Camino College's CWEE courses.
- The courses on the list will need updating to ensure compliance.
- Chair Young informed the Committee that she met with T. Jackson, V. Rapp and Q. Chapman to develop the template.
- Revised Title 5 regulations and the CWEE Handbook were both used to refine the template.
- The Committee began a careful review of each section on the course outline template.
- After discussion among the Committee, revisions were made to the catalog description, course objectives, and coursework.
- The CWEE template will be updated with the approved revisions and made available to the divisions.
- The template will be provided to the divisions for course review.
- Chair Young asked the committee if they wished to review all 43 of the CCWE proposals, or if they should be presented via consent agenda. The Committee agreed, that since the divisions will be using the template that was reviewed and refined by the CCC, that the courses should be reviewed as consent agenda items.

- Chair Young then asked for a motion to approve the course outline template for Cooperative Work Experience Education courses. L. Kjeseth moved, S. Panski seconded, and the motion carried.
- Chair Young stated that CWEE proposals will be due to the Q. Chapman by October 20, 2008, for review at the November 11, 2008 CCC meeting.

ANNOUNCEMENTS

- Chair Young informed the Committee that the Academic Senate would like to have CCC minutes included in the Senate packets. Q. Chapman will forward all approved minutes to Peter Marcoux.
- Chair Young asked the Committee if they would review and approve CCC minutes via email from this meeting forward to facilitate forwarding the minutes to the Senate and Curriculum items to the Board.
- Chair Young called for a motion to distribute CCC minutes, and approve them via email. S. Panski moved, L. Kjeseth seconded, and the motion carried.

Chair Young then asked for a motion to adjourn the meeting. J. Thompson moved, M. Lipe seconded, and the motion carried. The meeting was adjourned at 3:28 p.m.

EL CAMINO COLLEGE
COLLEGE CURRICULUM COMMITTEE

Proposed Curriculum Changes
September 23, 2008

MATHEMATICAL SCIENCES DIVISION

COURSE REVIEW; CHANGES IN TITLE AND NUMBER, DESCRIPTIVE TITLE, FACULTY LOAD, LECTURE HOURS, CREDIT STATUS, CATALOG DESCRIPTION

Current Status/Proposed Change

1. Mathematics ~~41A~~ 33 – Extended Elementary Algebra, Part I

Lecture: ~~3~~ 4 hours Faculty Load: ~~20.000~~ 26.667%

Credit, not degree applicable

This is the first course in the two-course Extended Elementary Algebra sequence, which begins at a slower pace than elementary algebra. Students examine the connections between the order of operations on real numbers and the elementary algebraic ideas of variables, expressions, and equations. Students explore the four fundamental representations of relations between two variables: verbal, algebraic, graphical, and numerical. Linear relations serve as the primary example, but students also study quadratic ~~and absolute value~~ relations. Students are expected to master basic numeric and algebraic manipulation skills, including combining like terms, expanding products, and elementary factoring.

Note: ~~Mathematics 41A/41B is a two-course elementary algebra sequence that is intended for students who would benefit from slower paced instruction.~~

~~Mathematics 41B serves as a prerequisite course for Mathematics 70~~

Recommendation:

Mathematics 33 – Extended Elementary Algebra, Part I

Lecture: 4 hours Faculty Load: 26.667%

Credit, not degree applicable

This is the first course in the two-course Extended Elementary Algebra sequence, which begins at a slower pace than elementary algebra. Students examine the connections between the order of operations on real numbers and the elementary algebraic ideas of variables, expressions, and equations. Students explore the four fundamental representations of relations between two variables: verbal, algebraic, graphical, and numerical. Linear relations serve as the primary example, but students also study quadratic relations. Students are expected to master basic numeric and algebraic manipulation skills, including combining like terms, expanding products, and elementary factoring.

Current Status/Proposed Change

2. Mathematics ~~41B~~ 43 – Extended Elementary Algebra, Part II

Lecture: ~~3~~ 4 hours Faculty Load: ~~20.000~~ 26.667%

Credit, not degree applicable

This is the second course in the two-course Extended Elementary Algebra sequence.

Students in this course explore the concept of relation and its four fundamental representations: verbal, algebraic, graphical, and numerical. Students show mastery of more advanced algebraic manipulation skills, including extracting roots, ~~completing the square,~~ and more advanced factoring. Students examine ~~and solve linear equations,~~ systems of linear equations, ~~and quadratic equations,~~ as well as quadratic, reciprocal and square root equations relations.

~~Note: Mathematics 41A/41B is a two-course elementary algebra sequence that is intended for students who would benefit from slower paced instruction. Mathematics 41B serves as a prerequisite course for Mathematics 70~~

Recommendation:

Mathematics 43 – Extended Elementary Algebra, Part II

Lecture: 4 hours Faculty Load: 26.667%

Credit, not degree applicable

This is the second course in the two-course Extended Elementary Algebra sequence.

Students in this course explore the concept of relation and its four fundamental representations: verbal, algebraic, graphical, and numerical. Students show mastery of more advanced algebraic manipulation skills, including extracting roots and more advanced factoring. Students examine systems of linear equations, as well as quadratic, reciprocal and square root relations.

COURSE REVIEW; CHANGES IN FACULTY LOAD, UNITS, LECTURE HOURS, CATALOG DESCRIPTION

1. Mathematics 191 – Single Variable Calculus and Analytic Geometry II

Current Status/Proposed Change

Units: ~~4~~ 5 Lecture: ~~4~~ 5 hours Faculty Load: ~~26.667~~ 33.333%

This course includes ~~a study of:~~ methods of integration; applications of integration; improper integrals; numerical integration; infinite sequences, series and power series; parametric equations, polar coordinates; ~~and as well as~~ conic sections.

~~Note: Mathematics 191 was formerly numbered Mathematics 5B.~~

Recommendation:

Units: 5 Lecture: 5 hours Faculty Load: 33.333%

This course includes methods of integration; applications of integration; improper integrals; numerical integration; infinite sequences, series and power series; parametric equations, polar coordinates; as well as conic sections.

2. Mathematics 220 – Multi-Variable Calculus

Current Status/Proposed Change

Units: ~~4~~ 5 Lecture: ~~4~~ 5 hours Faculty Load: ~~26.667~~ 33.333%

~~Solid analytic geometry, vector algebra,~~ This course contains topics in differential calculus in several variables, including partial differentiation; tangent planes to surfaces; directional derivatives; and optimization problems. Topics in integral calculus in several

variables include line, surface, and volume integrals, multiple integrals, vector field theory, as well as the theorems of Green's, Theorem, Gauss (Divergence) and Stokes' as generalizations of the Fundamental Theorem and Gauss' Theorem are Calculus. Other topics included in this course include vector algebra and solid analytic geometry.

~~Note: Mathematics 220 was formerly numbered Mathematics 6A.~~

Recommendation:

Units: 5 Lecture: 5 hours Faculty Load: 33.333%

This course contains topics in differential calculus in several variables, including partial differentiation; tangent planes to surfaces; directional derivatives; and optimization problems. Topics in integral calculus in several variables include line, surface, and volume integrals, integrals, as well as the theorems of Green, Gauss (Divergence) and Stokes as generalizations of the Fundamental Theorem Calculus. Other topics include vector algebra and solid analytic geometry.

DISTANCE EDUCATION COURSE VERSION UPDATES

1. Mathematics 33 – Extended Elementary Algebra, Part I (Online)
2. Mathematics 43 – Extended Elementary Algebra, Part II (Online)