

MINUTES OF THE UNDERGRADUATE CURRICULUM COMMITTEE MEETING
November 13, 2002

PRESENT: Davis (ECE), Dowling (COA), Guzdial (COC), Hughes (ECE), Kohl (ChE), Lacey (MATH), Lynch (ME), McIver (REG), McMath (Provost), Parsons (DCOM), Sankar (AE), Schneider (DCOM), Stasko (COC), Wills (ECE)

VISITORS: Carson (REG), Carter (MSE), Dunham-Jones (ARCH), McKnight (ML)

1. The petitions sub-committee meeting was changed to Monday December 2, 2002 and an additional meeting of the full Committee was scheduled at 3:00 pm on December 4, 2002 to hear appeals.
2. A motion was made to approve the minutes of the October 9, October 16, and November 4, 2002 meetings. The motion was seconded and approved. Unanimous.
3. The following items were approved by consent of the Committee:
 - a) Several new special topics courses were created and other made inactive (see attached) to have consistent numbering for all departments.
 - b) Request to make the SA designator for Studies Abroad courses inactive.
 - c) Request from the School of Psychology to specify the courses that may be used to satisfy the existing requirement for a third math course or second computer science course.
 - d) Request from the School of Materials Science and Engineering for a blanket substitution of CEE 2020 for AE 2120 / ME 2211 for students completing the course prior to entering the BSMSE program.
 - e) The following additional programs requested approval for their majors to substitute *Introduction to Media Computing* (CS 4803g, Spring 2003) for CS 1321: ECON, IAML
 - f) Requested prerequisite changes: CHEM 3511, CHEM 4511, CHEM 4512, ECE 2025, ECE 3075, ECE 4000, ECE 4110, ECE 4321, ECE 4604, INTA 3203, NRE 4232
 - g) Proposed changes in catalog descriptions for CHEM 1311, ECE 4110
 - h) Requests to deactivate CS 4761, ECE 4005, ECE 4010, ECE 4020, ECE 4025, ECE 4030, ECE 4035, ECE 4040, ECE 4050, ECE 4055, all SA courses
4. The DEPARTMENT OF BIOMEDICAL ENGINEERING requested the following modification to the requirements for the BS in Biomedical Engineering. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

Replace "ECON 2100" with "ECON 2100 or ECON 2105 or ECON 2106"
5. The SCHOOL OF TEXTILE AND FIBER ENGINEERING requested the following modification to the requirements for the BS in Polymer and Fiber Engineering. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

Replace "CS 1321" with "CS 1321 or COE 1361"
6. The request from the SCHOOL OF CHEMICAL ENGINEERING for an undergraduate certificate in Nuclear Chemical Engineering was tabled.
7. The SCHOOL OF MODERN LANGUAGES requested the following new courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

SPAN 1101 Patterns of Spanish I (3-0-3)

SPAN 1102 Patterns of Spanish II (3-0-3)

GERM 3695 German Business and Technology: Structure, Communication, Correspondence (3-0-3)

GERM 3696 German Business and Technology: Current Issues (3-0-3)

GERM 3697 German Business and Technology: Communications and Culture (3-0-3)

Make inactive: GERM 3691-2-3-4

8. The SCHOOL OF MATERIALS SCIENCE AND ENGINEERING requested the following new courses, course revisions, and modification of degree requirements. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

MSE 2020 Characterization of Materials (3-3-4)

MSE 3000 Chemical Thermodynamics of Materials (3-2-4)

MSE 3012 Thermal and Transport Properties of Materials (3-0-3)

Make inactive: MSE 3010, MSE 3001, MSE 4012 and MSE 4310.

Replace all references to MSE 3001 as a prerequisite with MSE 3000.

Replace prerequisites listed for MSE 4777 with MSE 2001 and CHEM 2311 or consent of instructor. Also in ME/TFE 4777.

List MSE 2001 as the only prerequisite for MSE 3015.

List MSE 2001 as the only prerequisite for MSE 3020.

List MSE 2020 and MSE 3002 as prerequisites for MSE 4006.

Modification for the degree requirements:

- **Replace** “CS 1321” with “CS 1321 or COE 1361”
- **Replace** “ECON 2100” with “ECON 2100 or ECON 2105 or ECON 2106”
- **Delete** CHEM 3411 (3-0-3)
- **Delete** MSE 3001 (3-0-3)
- **Delete** MSE 3010 (2-3-3)
- **Delete** MSE 4012 (3-0-3)
- **Delete** MSE elective (x-x-3)
- **Add** MSE 3000 (3-2-4)
- **Add** MSE 2020 (3-3-4)
- **Add** MSE 3012 (3-0-3)
- **Increase** the number of “Technical Electives” from 3 credits to 6 credits and modify the definition of acceptable technical electives
- Net reduction of 1 credit hour in degree requirements, to 127 (including wellness)

9. The SCHOOL OF MATERIALS SCIENCE AND ENGINEERING requested revisions to the catalog descriptions for MSE 3005, MSE 3015, MSE 4004, MSE 4006, MSE 4010, MSE 4325. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

10. The SCHOOL OF MATHEMATICS requested the following new course. A motion was made to approve the request. The motion was seconded and approved. 11 for, 1 against

MATH 2605 Calculus III for Computer Science (4-0-4)

Make inactive MATH 2601.

11. The COLLEGE OF COMPUTING requested the following new courses and modification of the requirements for the BS in Computer Science. A motion was made to approve the request. The motion was seconded and approved. 10 for, 2 against.

NEW COURSES:

CS 4001 Computing, Society, and Professionalism (3-0-3)

CS 1315 Introduction to Media Computation (3-0-3). This course will be designated as satisfying the General Education requirements for computer literacy.

Make inactive: CS 4000 and CS 4761

Modification of degree requirements:

- **Replace** CS 4000 with CS 4001
- **Replace** Math 2601 with Math 2605
- **Reduce** the number of free elective hours from 20 to 18.
- There is no net change in the number of hours required for the degree

12. The SCHOOL OF MECHANICAL ENGINEERING requested the following requirements for the BS in Mechanical Engineering and the BS in Nuclear and Radiological Engineering be modified. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

Replace “CS 1321” with “CS 1321 or COE 1361”.

The request to use CS 15xx as a substitute for CS 1321 based on satisfaction of the general education requirements in computer literacy through other required coursework was tabled. A sub-committee will be created to establish guidelines for departments that wish to substitute CS 15xx.

13. The COLLEGE OF ARCHITECTURE requested the following new courses and new minors:

NEW COURSES

BC 3640 – Construction Mechanics (3-0-3)

COA 4000 – Furniture Workshop: Material Potential and Fabrication Strategies (1-6-3)

ARCH 4110 – Public Space: Questions and Configurations (3-0-3)

ARCH 4109 – Architecture and Minimalism (3-0-3)

ARCH 4112 – Architecture in Georgia (1-6-3)

ARCH 4115 – Introduction to Principles of Classical Design (3-0-3)

ARCH 4116 – Filmic Constructions of Space (3-0-3)

ARCH 4130 – Responsive Territories (3-0-3)

ARCH 4129 – Form and Narrative: Cross Media Analysis (3-0-3)

ARCH 4223 – Reinvestigating the Detail: The Ornamental and the Everyday (3-0-3)

ARCH 4305 – Near and Far: Cross-cultural Practices in Art, Architecture and Design (3-0-3)

ARCH 4417 – Building Furniture / Furnishing Buildings (3-0-3)

A motion was made to approve the request for new courses. The motion was seconded and approved. Unanimous.

14. The COLLEGE OF ARCHITECTURE requested the following new minors:

NEW MINORS (see attached)

Architectural History

Multi-Disciplinary Design/ Arts History

A motion was made to approve the request for new minors. The motion was seconded and approved. Unanimous.

15. The COLLEGE OF ARCHITECTURE requested modification of the degree requirements for both the BS in Building Construction and the BS undesignated (architecture major). A motion was made to approve the request. The motion was seconded and approved. Unanimous.

Replace “CS 1321” with “CS 1321 or a computer programming course approved as satisfying the general education requirements in computer literacy”.

16. The SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING requested the following new course and modification of the degree requirements for the BS in Electrical Engineering. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSE

ECE 3090 Software Fundamentals for Engineering Systems (3-3-4)

Add ECE 3090 to the list of EE Breadth Course options, changing the requirement from “pick 3-of-7” to “pick 3-of-8”.

Adjourned,

M. Jo McIver
Registrar

MJM:am
Addendum attached

**Addendum to the Undergraduate Curriculum Committee Meeting
November 13, 2002**

PROPOSAL: UNDERGRADUATE MINORS

In order to encourage and officially to acknowledge the attainment by students of a fair measure of expertise and knowledge in more than one academic field and with the intention of offering students the opportunity to broaden their education through a minor field, the College of Architecture proposes/institutes the following minors

- A. Architectural History
- B. Multi-Disciplinary Design/Arts History

Guidelines and Requirements:

The Architectural History Minor recognizes the successful completion of a program of study in various history-focused areas of the history, theory, and criticism of architecture.

The Multi-Disciplinary Design/Arts History Minor recognizes the successful completion of a focused program of study in multiple related fields in the history of arts/design with selected course work in architectural history, the history of industrial design, the history of planning and urban design, the history of landscape architecture and gardens, the history of decorative arts, art history, and music history.

1. Each minor program consists of at least 18 semester hours of which 12 semester hours are advanced upper level course work (numbered 3000 or above) in a field of study other than the student's major and must be completed in residence at Georgia Tech. By approving the minor proposal, the College of Architecture attests that by successful completion of the minor, a student has attained a fair measure of expertise and knowledge in the minor field.
2. All courses counting toward the minor must be taken on a letter-grade basis and must be completed with an overall grade point average of at least 2.5 [Ga Tech requires 2.0]
3. Courses required by name and number in a student's major degree program may not be used in satisfying the course requirements for a minor.
4. No more than 4 semester hours of Special Topics courses may be included in a minor program
5. Special Problems courses may not be used in the minimum 18 hours of a minor program.
6. Courses used in a minor may also be used to fulfill area requirements (free electives, technical electives,

social science electives, humanities electives, etc.) as approved by the student's major school. However, area minimum requirements must be met in total (combined totals for SS/Humanities may not be used).

7. A student may have no more than two minors.

A. Undergraduate Minor in Architectural History

Required: Arch 2111 History of Architecture I Ancient to 1750 3 hrs
and

Arch 2112 History of Architecture II 1750 to present 3 hrs

OR

Arch 4105 History of Architecture I Ancient to 1750 3 hrs

and

Arch 4106 History of Architecture II 1750 to present 3 hrs

AND Four Courses [Six Courses for Architecture Program students] from the following:

Arch 2115 Architecture of Australia 3 hrs

Arch 4113 Renaissance & Mannerist Arch 3 hrs

Arch 4114 Medieval Arch 3 hrs

Arch 4117 Arch of Arts & Crafts M. 3 hrs

Arch 4118 American Academic Arch 3 hrs

Arch 4119 Frank Lloyd Wright 3 hrs

Arch 4120 Atlanta Architecture 3 hrs

Arch 4123 European Modernism 3 hrs

Arch 4124 American Architecture 3 hrs

Arch 4125 French Arch. Ledoux to Corbu 3 hrs

Arch 4821/2/3 Special Topics (with approval) 3 hrs

COA 3xxx Art and Architecture in Italy I 3 hrs former 2115

COA 3xxx Art and Architecture in Italy II 3 hrs former 2116

[Cross Registration course work in architectural history from other Atlanta universities may be considered on a case by case basis.]

B. Undergraduate Minor in Multi-disciplinary Design/Arts History

Required CORE SURVEYS IN HISTORY OF DESIGN

Arch 2111 and 2112 OR Arch 4105 and 4106 OR COA 2241 and 2242 OR ID 2011 and 2012.

AND 4 courses from at least 3 of the 5 lists below. (I.e., in addition to completing one of the two-course surveys above, each Multi-disciplinary Design/Arts History Studies Minor will reflect the completion of at least one course from each of at least 3 lists below and no more than 2 courses are selected from the same list).

List 1 HISTORY OF ARCHITECTURE

*Arch 2111 History of Architecture I: Ancient to 1750 3 hrs

*Arch 2112 History of Architecture II: 1750 to present 3 hrs

*Arch 4105 History of Architecture I: Ancient to 1750 3 hrs [2nd degree]

*Arch 4106 History of Architecture I: Ancient to 1750 3 hrs [2nd degree]

Arch 4114 Medieval Arch** 3 hrs

Arch 4117 Arch of Arts & Crafts Movement 3 hrs

Arch 4151 History of Urban Form 3 hrs

Arch 4821/2/3 Special Topics (with approval)[#] 3 hrs

[cross listed w/ 6112] Architectural Theory and Criticism I 3 hrs

[cross listed w/ 6112] Architectural Theory and Criticism I 3 hrs

others with approval

* open to students who take COA 2214/42 or ID 2011/12 as their core above

**catalog description to change to reflect architecture, arch'l sculpture & stained glass content

List 2 HISTORY OF INDUSTRIAL DESIGN

ID 2202 History of Modern Industrial Design 3 hrs

ID 3801-2 Special Topics (with approval) 3 hrs

ID 4204 Theorizing Design 3hrs

ID 4205 French Design and Culture 3 hrs

ID 4803 Special Topics: Furniture 3 hrs

ID 4804 Special Topics: Collaborative 3 hrs

ID 4805 Cultural Studies in Design [#Chinese, African, etc] 3 hrs

#Chinese, Japanese, Asian Indian, Sub-Saharan African, Native American, Mesoamerican, Islamic)

List 3 HISTORY OF THE CITY; LANDSCAPE/GARDEN HISTORY

Arch 4151 History of Urban Form 3 hrs

Arch 4821/2/3: Special Topics in Architectural History:

[cross listed w/ 6112] Islamic Architecture and Urbanism 3 hrs

[cross listed w/ 6152] Studies of Landscape Architecture 3 hrs

[cross listed w/ 6153] History and Theory of the Modern City 3 hrs

Others in areas of urban/garden/landscape history approved on a case by case basis 3 hrs

CP 4010 Foundations of Urban & Regional Development 3 hrs

CP 4020 Introduction to Urban and Regional Planning 3 hrs

CP 4040 The City in Fiction and Film 3 hrs

List 4 HISTORY OF ART AND FOREIGN STUDY

COA 1060 Introd. to Design & the Built Environment 3 hrs

Arch 2115 Art and Architecture of Australia 3 hrs

COA 2115 Art and Architecture in Italy I 3 hrs

COA 2116 Art and Architecture in Italy II 3 hrs

COA 2241 History of Art I 3 hrs

COA 2242 History of Art I 3 hrs

Arch 4121 Arch'l History of Barcelona & its public spaces 3 hrs

List 5 MUSIC HISTORY

MUSI 3450 Survey of Music Technology 3 hrs

MUSI 3610 Composers and Their Music: 1500-1800 3 hrs

MUSI 3611 Composers and Their Music: 1800 to present 3 hrs

MUSI 3801-2-3;4801-2-3 Special Topics (Music History topic, with approval) 3 hrs

MUSI 4450 Integrating Music into Multimedia 3 hrs