Adopted: May 13, 1986

ACADEMIC SENATE
OF
CALIFORNIA POLYTECHNIC STATE UNIVERSITY
San Luis Obispo, California

AS-211-86/GE&B

GENERAL EDUCATION AND BREADTH
COURSE PROPOSALS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Area</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 121</td>
<td>Agricultural Mechanics</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
<tr>
<td>CONS 120</td>
<td>Fisheries and Wildlife Management</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
<tr>
<td>FOR 201</td>
<td>Forest Resources</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
<tr>
<td>HE 203</td>
<td>Consumer Role of the Family</td>
<td>D.4.b.</td>
<td>Not Approved</td>
</tr>
<tr>
<td>HE 331</td>
<td>Household Equipment</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
</tbody>
</table>

Biological Science courses with ENT or CONS prefixes at the 300 level be included in General Education and Breadth Area B.1.b.

Area B.1.b. Not Approved

Proposed By:
General Education & Breadth Committee
March 20, 1986
Memorandum

To: Lloyd Lamouria, Chair
   Academic Senate

From: Warren J. Baker
   President

Subject: Academic Senate Resolutions

Date: July 23, 1986

The following are my comments on recent Academic Senate resolutions:

**General Education and Breadth Requirements (AS-188-85):**

Formal response to this resolution was apparently overlooked. The courses have been included in the 1986-88 catalog and can be considered approved. I do have some reservations about those courses in Area F as noted in my comments below.

**General Education and Breadth (AS-189-86/GE&B):**

This resolution is approved with the exception of the two courses falling into Area F: NRM 101 and NRM 201. My comments regarding these and other courses in Area F can be found in the next section.

**General Education and Breadth Course Proposals (AS-211-86/GE&B)**

I concur with the non-approval of HE 203.

I do not agree with the Senate's approval of additional courses for Area F, either those in this resolution or in AS-188-85 and AS-189-86/GE&B as noted above.

My objection rests on the Knowledge and Skills Statements that were adopted by referendum of the faculty during the process of developing and implementing the new GE&B program. There continues to be some confusion between sections 7 and 9, both of which bear on the intent of courses admitted to Area F.

Section 7 requires that Cal Poly students in particular should "understand how technology influences and is influenced by cultural and environmental factors, the applications of technology to contemporary problems, and the potential of technology to both positively and negatively affect individuals and societies." It goes on to indicate that this can be achieved by including experiences in which students "gain an awareness of their increasing dependence on technology and how it is guided, managed, and controlled."
In addition, students "should be able to evaluate and assess questions of value and choice underlying technologies and how, in the course of their development, these questions have been addressed and answered."

Section 9 requires that Cal Poly graduates "be exposed to courses taught within the technological areas, so that they will have a basis for developing a better understanding of how technology influences and is influenced by present day cultures and other environmental factors."

Students should "develop an awareness of typical problems addressed by technology, such as methods of world food production, applications of the computer, or the production, distribution, and control of energy."

They should also "have an opportunity to learn the difficulties inherent in solving technological problems," especially in "the application of theoretical knowledge to practical matters such as:

(1) The consequences and implications of applied technology for environmental factors of climate, water quality, soil, and plant resources.

(2) Problems stemming from the interactions of population growth, technology and resource consumption, such as climate change, the energy crisis, world hunger and soil erosion."

Students are further expected to "develop an awareness of issues raised by the interaction of culture and technology."

These statements raise two immediate issues: What do we mean by "courses taught within the technological areas"? And what is Area F attempting to accomplish in the education of our undergraduates?

Up to this time, we have limited courses in Area F to those taught by the Schools of Agriculture, Architecture, and Engineering. This may be an artificial limitation; certainly there are faculty and departments in other schools of the university capable and interested in offering courses for Area F. The current Senate resolutions propose some courses for Area F to be offered by departments outside these three schools, and before a decision is made regarding their approval, I would like the statement "taught within the technological areas" clarified for the entire campus.

As I read Section 7 and Section 9, and as I consider my own thinking about General Education, I believe Area F should concern itself with providing the student an opportunity to consider the benefits of technology, and at the same time to reach some understanding of the "consequences and implications" of technology, both practical and ethical.

When I review the courses currently in Area F, I find only two courses of the approximately 33 listed which, at least on paper, appear to be consistent with the statements noted above: ENGR 301 and AG 301. To add more courses to Area F would only aggravate the situation and further dilute this area of General Education and Breadth.
As a result of these and other considerations, I am withholding approval of any courses for AREA F and requesting the Academic Senate to clarify the issues centering around Area F. This will need to be accomplished in time for the next curricular cycle so that necessary changes can be incorporated in the 1988-90 catalog.

General Education and Breadth Course Proposals (AS-212-86/GE&B):

Both recommendations are acceptable: The "Human Values in Agriculture" course is approved for Area C.3. and Math 201 is approved for Area B.2. However, I request a change in title for MATH 201. I would prefer the elimination of "Appreciation" and substitution of something more appropriate to the content and intent of the course. This course and all other math courses will have to be in compliance with the CSU policy on Baccalaureate Credit for Intermediate Algebra as outlined in GE&B Notes #8 (May 12, 1986) and in EP&R 86-32 (June 5, 1986).
Date: May 27, 1986  

To: Warren J. Baker, President  

From: Lloyd H. Lamouria, Chair  
Academic Senate  

Subject: Proceedings of the Academic Senate, May 13, 1986  
GENERAL EDUCATION AND BREADTH COURSE PROPOSALS  
(AS-211-86/GE&B)  

The attached General Education and Breadth (GE&B) recommendations were adopted on May 13, 1986 and are herewith forwarded for your consideration and approval. All were strongly endorsed by the Academic Senate.

Again, our GE&B Committee has strengthened our offerings with their recommendations. Their record is attached.
## General Education and Breadth Course Proposals

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Area</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 121</td>
<td>Agricultural Mechanics</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
<tr>
<td>CONS 120</td>
<td>Fisheries and Wildlife Management</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
<tr>
<td>FOR 201</td>
<td>Forest Resources</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
<tr>
<td>HE 203</td>
<td>Consumer Role of the Family</td>
<td>D.4.b.</td>
<td>Not Approved</td>
</tr>
<tr>
<td>HE 331</td>
<td>Household Equipment</td>
<td>F.2.</td>
<td>Approved</td>
</tr>
</tbody>
</table>

Biological Science courses with ENT or CONS prefixes at the 300 level be included in General Education and Breadth Area B.1.b. Not Approved

Proposed By:
General Education & Breadth Committee
March 20, 1986
<table>
<thead>
<tr>
<th>1. PROPOSER'S NAME</th>
<th>George Brown</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. PROPOSER'S DEPT.</td>
<td>Agricultural Engr.</td>
</tr>
</tbody>
</table>

3. SUBMITTED FOR AREA (include section, and subsection if applicable)

| F.2. |

4. COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format)

| AE 121 - Agricultural Mechanics (2) |
| Identification and use of tools and materials; tool sharpening and care; concrete mixes and materials; simple electric wiring; metal work; pipe fitting; basic woodworking; estimating quantities and costs. 1 lecture, 1 laboratory. |

5. SUBCOMMITTEE RECOMMENDATION AND REMARKS

| Approves |

6. GE & B COMMITTEE RECOMMENDATION AND REMARKS

| Approves 6-0-0 |

7. ACADEMIC SENATE RECOMMENDATION
<table>
<thead>
<tr>
<th>1. PROPOSER'S NAME</th>
<th>Biological Sciences Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. PROPOSER'S DEPT.</td>
<td>F.2.</td>
</tr>
<tr>
<td>3. SUBMITTED FOR AREA (include section, and subsection if applicable)</td>
<td>F.2.</td>
</tr>
<tr>
<td>4. COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format)</td>
<td>CONS 120 - Fisheries and Wildlife Management (3) Survey of fisheries and wildlife resources and management practices. Relationships to recreational values, land management, food production, and preservation. 3 lectures.</td>
</tr>
<tr>
<td>5. SUBCOMMITTEE RECOMMENDATION AND REMARKS</td>
<td>Approves.</td>
</tr>
<tr>
<td>6. GE &amp; B COMMITTEE RECOMMENDATION AND REMARKS</td>
<td>Approves  6-0</td>
</tr>
<tr>
<td>7. ACADEMIC SENATE RECOMMENDATION</td>
<td></td>
</tr>
</tbody>
</table>

-17-

GENERAL EDUCATION AND BREADTH PROPOSAL
1. **PROPOSER'S NAME**
   
   NRM Department

2. **PROPOSER'S DEPT.**

3. **SUBMITTED FOR AREA (include section, and subsection if applicable)**
   
   F.2.

4. **COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format)**
   
   FOR 201 - Forest Resources (3)
   
   Overview of forest resources including basic management, fire protection, and multiple use of forest, woodland, and chaparral lands for water production, forage, recreation, wildlife, timber, energy and urban forest values. Three lectures.

5. **SUBCOMMITTEE RECOMMENDATION AND REMARKS**

   Approves.

6. **GE & B COMMITTEE RECOMMENDATION AND REMARKS**

   Approves  8-0

7. **ACADEMIC SENATE RECOMMENDATION**
<table>
<thead>
<tr>
<th>1. PROPOSER'S NAME</th>
<th>2. PROPOSER'S DEPT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbara P. Weber</td>
<td>Home Economics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. SUBMITTED FOR AREA (include section, and subsection if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.4.b.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 203 - Consumer Role of the Family (3)</td>
</tr>
<tr>
<td>Study of the individual and family as consumers in the</td>
</tr>
<tr>
<td>marketplace. Sources of consumer protection and recourse.</td>
</tr>
<tr>
<td>Influence of selected management concepts on consumption</td>
</tr>
<tr>
<td>patterns. 3 lectures.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. SUBCOMMITTEE RECOMMENDATION AND REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Against. See attached sheet.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. GE &amp; B COMMITTEE RECOMMENDATION AND REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Against 0-6-0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. ACADEMIC SENATE RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
To: George Lewis, Chair  
GE&B Committee

From: Area D. 4.b. Subcommittee (Burton, Culver, Harris, Preston)

Subj: Evaluation of Home Economics 203

Our Subcommittee has reviewed the appropriateness of HE 203 (Consumer Role of the Family) for insertion into Area D.4.b in the General Education and Breadth curriculum. We recommend against this course in D.4.b based upon our evaluation of the support materials provided to you in Dr. Barbara Weber’s memorandum of 21 October 1985.

Specifically, we note the following in our opposition to the course:

1. This course fails to meet the requirement of Area D as established in E.O. 338. It does not adequately address the interwoven nature of "human social, political and economic institutions and behavior" and it makes no effort to examine issues in a non-western context;

2. This course does not meet the Cal Poly GE&B Knowledge and Skills Statement requirements that concern (a) examination of the forces which shape institutions other than our own, (b) recognition of the interaction of communities and institutions, and (c) consideration of the geographical and cultural diversity of the world.

Comment: According to the clearly stated content and goals of Home Economics 203, the course is designed to increase the consumptive awareness of the American citizen. Essentially the course endeavors to help "...the consumer develop an individual consumer perspective, an awareness of sources of consumer protection and recourse, and a broad base of general information to apply management concepts to consumptive patterns." This effort directed at contemporary American consumers does not qualify as a candidate for inclusion in area D.4.b. Home Economics 203 does not examine problems in their contemporary as well as historical setting. It does not include both western and non-western contexts and fails to reflect the fact that human social, political and economic institutions and behavior are inextricably interwoven. Indeed if Home Economics 203 attempted to satisfy the criteria outlined above it would (by its own definition) fail to achieve its stated goals and totally diminish the worthiness of the course to any contemporary American consumer. It is primarily a single issue course and must remain that way in order to fulfill its stated design. As such, Home Economics 203 simply does not qualify in Area D.4.b which is inherently broad based and represents an entirely different realm of study.
1. **PROPOSER'S NAME**  
Barbara P. Weber

2. **PROPOSER'S DEPT.**  
Home Economics

3. **SUBMITTED FOR AREA (include section, and subsection if applicable)**  
F.2.

4. **COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format)**  
HE 331 - Household Equipment (4)  
Principles involved in construction, operation, energy consumption, selection, safety, and space utilization of household equipment. 3 lectures, 1 two-hour laboratory. Prerequisite: Junior standing.

5. **SUBCOMMITTEE RECOMMENDATION AND REMARKS**  
Approves, with the recommendation that Home Economics majors not be allowed to use this course to satisfy F.2.

6. **GE & B COMMITTEE RECOMMENDATION AND REMARKS**  
Approves 5-0-3  
Some members of the committee expressed reservations about the upper division status of this course.

7. **ACADEMIC SENATE RECOMMENDATION**
1. PROPOSER'S NAME
   Biological Sciences Department

2. PROPOSER'S DEPT.

3. SUBMITTED FOR AREA (include section, and subsection if applicable)
   B.1.b.

4. COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format)
   To include ENT. and CONS. in the specific prefixes cited in Area B.1.b.

5. SUBCOMMITTEE RECOMMENDATION AND REMARKS
   Against (unanimous)

6. GE & B COMMITTEE RECOMMENDATION AND REMARKS
   Against. Committee divided the question:
   
   ENT. 1-6-1
   CONS. 2-6-1

7. ACADEMIC SENATE RECOMMENDATION
be modified to include a parenthetical sentence listing the specific prefixes that define the term "life science." The proposed revision would read: Any 300-level life science course (i.e., with a BACT, BIO, BOT, CONS, ENT, or ZOO prefix) having one of the above as a prerequisite may also be selected with the exception of BIO 321, 342. (The added parenthetical statement has been underlined for clarity.)

In March of 1985 the GE&B Subcommittee for Area B, chaired by Dr. Mueller, directed its attention to the vague wording of GE&B, B.1.b. in the 1984-1986 catalog. This committee elected to define "life science" as those courses having "one of the prefixes: BACT, BIO, BOT or ZOO." The Bio Sci Department offers several 300-level life science courses having either an ENT or a CONS prefix. All of these courses are acceptable alternatives for Area B.1.b.

The effect of the present proposal would be to enlarge the 300-level life science courses offered by the Bio Sci Department that satisfy the GE&B Area B (B.1.b) requirements.

Jim Mueller, Chair
GE & B Subcommittee for Area B

Subject: Biological Science Department: Second Proposal

A meeting of the GE & B Area B subcommittee was held on November 6, 1985 to consider a request from the Biological Science Department to revise the definition of "life science" under GE & B guidelines in the catalog. Present at the meeting were Jim Mueller, Tina Bailey, Don Morgan, and John Pohling.

The proposed revision would expand the definition of "life science" for GE & B to include 300-level courses having the prefixes CONS or ENT. The subcommittee's vote was to deny the request. Our feeling was that courses with these prefixes do not carry the spirit of general education in Area B.

Documentation supporting this view can be found in GE & B notes #3, 10/19/81, from the Academic Affairs Office of the Chancellor:

Courses utilized to address understanding of science should be selected with an eye to exposing students to broad concepts and principles. Highly specialized and "how to" courses would not be expected to achieve the objectives of imparting "knowledge of the facts and principles which form the foundation of living and non-living systems" as well as exposing students to the methodologies of science and their limitations.

We reaffirm our decision of April 4, 1985 that the catalog read under GEB B.1.b.: Any 300-level life science course (i.e., with a BACT, BIO, BOT, or ZOO prefix) having one of the above as a prerequisite may also be selected with the exception of BIO 321, 342.