

# Approval Chart for Curriculum Changes

A = Approve    I= Information Item<sup>1</sup>    R= Advise & Respond<sup>2</sup>

Course Number ITC 125 or Degree Plan(s) \_\_\_\_\_

State the requested change and reason. A memo may be attached if more space is necessary.

We propose the inclusion of ITC 125 in the Social Sciences menu of the university requirements. Because of the wide permeation of technology in modern society and the rippling cultural effects of this use, this topic directly affects all of our students. Understanding and engaging with core principles and practices in the design of interactive technology will benefit all of us.

Supporting documents are included.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

|     |                                                                                                                   | COUNCIL <sup>3</sup> |                  |       |     |      |     |      |         |           |
|-----|-------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------|-----|------|-----|------|---------|-----------|
|     | Change to a Course                                                                                                | Dept./School         | College Academic | Deans | TEC | UGEC | UAC | GRAD | Provost | President |
| 1.  | Title (description unchanged)                                                                                     | A                    | A                | A     | I   |      |     |      | I       | I         |
| 2.  | Description (not affecting content)                                                                               | A                    | A                | A     | I   |      |     |      | I       | I         |
| 3.  | Course term(s)                                                                                                    | A                    | I                | A     | I   |      |     |      | I       | I         |
| 4.  | Content (substantive change)                                                                                      | A                    | A                | A     | I   |      |     |      | A       | I         |
| 5.  | Number of hours (lecture, lab, contact)                                                                           | A                    | A                | A     | A   |      |     |      | A       | I         |
| 6.  | Course number within the hundred                                                                                  | A                    | A                | I     | I   |      |     |      | I       | I         |
| 7.  | Course number beyond the hundred                                                                                  | A                    | A                | A     | A   |      |     |      | A       | I         |
| 8.  | Prerequisites                                                                                                     | A                    | A                | A     | I   |      |     |      | I       | I         |
| 9.  | Course fee(s)                                                                                                     | A                    | --               | A     | --  |      |     |      | A       | I         |
| 10. | From U to G <i>or</i> G to U                                                                                      | A                    | A                | A     | A   |      |     |      | A       | I         |
| 11. | Cross list with another department: U or G level                                                                  | A                    | A                | A     | A   |      |     |      | A       | I         |
| 12. | Department of record                                                                                              | A                    | A                | A     | A   |      |     |      | A       | I         |
| 13. | Open or close a course                                                                                            | A                    | A                | A     | A   |      |     |      | A       | I         |
| 14. | New course — See website for application and process.<br>This change includes combining or splitting a course(s). | A                    | A                | A     | A   |      |     |      | A       | I         |

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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|     |                                                                                                             | COUNCIL <sup>3</sup> |                  |       |     |      |      |      |         |         |           |                   |
|-----|-------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------|-----|------|------|------|---------|---------|-----------|-------------------|
|     | Change to a Degree Plan                                                                                     | Dept./School         | College Academic | Deans | TEC | UGEC | UUAC | GRAD | Provost | Faculty | President | Board of Trustees |
| 1.  | University Requirements — Change in approved course content <sup>6</sup>                                    | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 2.  | University Requirements — Add or drop a required course from the University Requirements chart <sup>6</sup> | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
| 3.  | University Requirements — Add or drop a course from a menu within the University Requirements <sup>6</sup>  | A                    | --               | --    | A   |      |      |      | A       | --      | A         | --                |
| 4.  | University Requirements — Change hours within a menu on the University Requirements chart <sup>6</sup>      | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 5.  | Major — Revision of major <sup>4,5</sup>                                                                    | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 6.  | Major — Adopt or change admission requirements                                                              | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 7.  | Major — Add <sup>4,5</sup>                                                                                  | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 8.  | Major – Discontinue (proposed by the department or college)                                                 | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 9.  | Major – Discontinue (proposed by the Provost)                                                               | See below.           |                  |       |     |      |      |      |         |         |           |                   |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 10. | GPA — Revise major or cumulative requirement                                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 11. | Minor — Revise course selection                                                                             | A                    | A                | A     | I   |      |      |      | I       | --      | I         | --                |
| 12. | Minor — Add                                                                                                 | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 13. | Minor – Discontinue (proposed by the department or college)                                                 | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 14. | Minor – Discontinue (proposed by the Provost)                                                               | See below.           |                  |       |     |      |      |      |         |         |           |                   |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 15. | Degree — Add                                                                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 16. | Degree – Discontinue (proposed by the department or college)                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 17. | Degree – Discontinue (proposed by the Provost)                                                              | See below.           |                  |       |     |      |      |      |         |         |           |                   |
| 18. | Any change to a graduate degree program                                                                     | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |

| COUNCIL <sup>3</sup> |                                                                |         |            |      |     |      |          |         |           |                   |
|----------------------|----------------------------------------------------------------|---------|------------|------|-----|------|----------|---------|-----------|-------------------|
|                      | Provost-Proposed Change                                        | Provost | Department | Dean | TEC | UUAC | Graduate | Faculty | President | Board of Trustees |
| 1.                   | Major/Graduate Program – Discontinue (proposed by the Provost) | A       | R          | R    | A   |      |          | A       | A         | I                 |
| 2.                   | Minor – Discontinue (proposed by the Provost)                  | A       | R          | R    | A   |      |          | --      | A         | --                |
| 3.                   | Degree – Discontinue (proposed by the Provost)                 | A       | R          | R    | A   |      |          | A       | A         | I                 |

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| COUNCIL <sup>3</sup> |                                                                                                                              |              |                  |       |      |      |      |         |           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------|------|------|------|---------|-----------|
|                      | Change to the Catalog Information                                                                                            | Dept./School | College Academic | Deans | UGEC | UUAC | GRAD | Provost | President |
| 1.                   | General requirements for graduation including course requirements that are common to all majors for all degrees <sup>7</sup> | --           | --               | --    |      | A    |      | A       | A         |
| 2.                   | Admission requirements                                                                                                       | --           | --               | --    |      | A    |      | A       | A         |
| 3.                   | Policies governing academic probation and suspension                                                                         | --           | --               | --    |      | A    |      | A       | A         |
| 4.                   | Requirements for graduating with honors                                                                                      | --           | --               | --    |      | A    |      | A       | A         |

<sup>1</sup> Councils may request additional information about “Information” items. These items are approved as “Consent Agenda.”

<sup>2</sup> The Dean and Department should respond to the Provost’s recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

<sup>3</sup> All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

<sup>4</sup> A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

<sup>5</sup> Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

<sup>6</sup> Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (SACS 2.7.3). Departments may request exceptions to the first three criteria.

<sup>7</sup> The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

Revised 8-26-19

## Curriculum/Catalog Changes Signature Page

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>Department/School Chair(s)</b>                                                              |                           |
| <br>Signature | 11.14.19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>College Academic Council(s)</b>                                                             |                           |
| <br>Signature | 11/14/19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>Dean(s)</b>                                                                                 |                           |
| <br>Signature | 11/15/19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Teacher Education Council</b> |                        |
| _____<br>Chair's signature       | _____<br>Approval date |

|                                  |                        |
|----------------------------------|------------------------|
| <b>General Education Council</b> |                        |
| _____<br>Chair's signature       | _____<br>Approval date |

|                                       |                        |
|---------------------------------------|------------------------|
| <b>Undergraduate Academic Council</b> |                        |
| _____<br>Chair's signature            | _____<br>Approval date |

|                            |                        |
|----------------------------|------------------------|
| <b>Graduate Council</b>    |                        |
| _____<br>Chair's signature | _____<br>Approval date |

|                    |                        |
|--------------------|------------------------|
| <b>Provost</b>     |                        |
| _____<br>Signature | _____<br>Approval date |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Faculty</b>                   |                        |
| _____<br>Chair of faculty senate | _____<br>Approval date |

|                    |                        |
|--------------------|------------------------|
| <b>President</b>   |                        |
| _____<br>Signature | _____<br>Approval date |

ITC 125  
Proposal for inclusion in the Social Sciences menu

SITC is proposing a new course – ITC 125 : Introduction to Human-Computer Interaction – for addition to the catalog and for inclusion in the university's Social Sciences menu. The focus of this document is to show correlation between the course competencies (as listed in the application and sample syllabus) and the criteria for menu inclusion.

We believe that the course satisfies the general criteria – have lower-level numbering (yes), be free of prerequisite and co-requisites (yes), appeal to more than one or two majors (how humans interact with technology can and should inform the work of many different kinds of professions), and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (this course focuses on basic elements of human interaction with technology and can be applied to any discipline).

This listing shows how the specified criteria for Social Sciences courses will be addressed, including a rough correlation between course competencies and these criteria.

1. Disciplines: For the university requirements, the social science menu includes the following disciplines: anthropology, economics, family studies, geography, history, international studies, philosophy, political science, psychology, and sociology. (The UGEC can consider requests from other disciplines.)
  - a. We believe that Human-Computer Interaction sits at the intersection of multiple social science disciplines, as demonstrated by a quote from the introduction from a popular textbook on the subject:
  - b. “Researchers created the interdisciplinary design science of *human-computer interaction* by applying the methods of experimental psychology to the powerful tools of computer science. Then they integrated lessons from education and industrial psychologists, instructional and graphic designers, technical writers, experts in human factors or ergonomics, and growing teams of anthropologists and sociologists.” – Designing the Human Interface by Shneiderman et al., 2017.
2. Definition: A course in the social sciences will focus on human function include the basic assumptions about humans, their behaviors, and the dynamics of human interaction; the relationships between humans and their physical environment; the creation and interaction with institutions of power and governance, and/or the study of how people produce, distribute and consume goods and services. A course in the social sciences should involve the study of human functioning at the level of the individual, small group, institution, organization, community, or larger population. The course will address at least one of the following:

- a. At the individual level, this course may involve the study of behavioral factors such as cognition, memory, language, perception, personality, emotion, motivation, and others.
  - i. Students will hear lectures on how the following relates to interaction with technology: human memory, emotion, hearing, vision, and cognition (decision making, mental models, feedback loops, etc.).
  - ii. Students will have weekly readings, in-class quizzes, write short reflective essays on lecture topics, and have a midterm and final exam on these topics.
  - iii. Students will have weekly “bad design” presentations with students sitting next to them in class using a “think-pair-share” method.

This criterion correlates to the following course competencies:

**#1:** Demonstrate understanding of insights into human behavior that lead to interaction with technology. This information will be presented in class lectures and from reading assignments from the textbook.

**#4:** Be able to describe where and why design fails to consider human behavior.

### 3. Course Content

Courses that satisfy the requirements in Social Sciences should either:

- a. Introduce students to a particular disciplines within the social sciences, with an emphasis on its basic methods of inquiry, significant research findings, influential theories, key concepts and terminology, and the major topics common to the discipline;
  - i. Students will be introduced to the discipline of human-computer interaction, with an emphasis on its basic methods of inquiry:
    - 1. Students will attend some class session in the maker lab and participate on rapid prototyping. This is an exercise used in industry to quickly create something and see if it is feasible and usable.
    - 2. Students will participate in user testing with upper-level students in Human-Computer Interaction (CS 330) as testing participants. This allows them to see what user testing is like without having to create mock-ups and run testing sessions themselves.
  - ii. Students will be introduced to influential theories, key concepts, and terminology in human-computer interaction through:
    - 1. Lectures and course readings.

This criterion correlates to the following course competencies:

#1: Demonstrate understanding of insights into human behavior that lead to interaction with technology. This information will be presented in class lectures and from reading assignments from the textbook.

#2: Demonstrate ability to work in groups to rapidly work through ideation, prototyping, and testing.

#3: Understand the process of HCI user testing.

Social Sciences menu courses address this general education competency:

General Education Competency 2: Knowledge and inquiry practices of natural, socio-cultural, aesthetic, and religious disciplines.

1. Knowledge: Demonstrate an understanding of the basic knowledge, terminology, or elements appropriate to the discipline.
2. Inquiry: Demonstrate an understanding of the fundamental elements (methodology or theoretical framework) for sound inquiry and analysis appropriate to the discipline.

with an overall student learning outcome of:

“Deep understanding of and hands-on experience with the inquiry practices of disciplines that explore the natural, socio-cultural, aesthetic, and religious (or theological or spiritual) realms - achieved and demonstrated through studies that build conceptual knowledge by engaging learners in concepts and modes of inquiry that are basic to the natural sciences, social sciences, humanities, arts, and Christian faith (or theology);”

To be approved for inclusion in the Social Sciences menu, courses must designate the appropriate assessment method for the general education competency and the relevant goal level for the student achievement of that outcome in this format:

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Course Name & Number         | Introduction to Human-Computer Interaction (ITC 125) |
| University Requirements Menu | Social Sciences                                      |
| General Education Competency | 2: Knowledge                                         |
| Assessment Method            | Final Exam                                           |
| Acceptable Goal              | at least 80% of students score at least 70%          |
| Ideal Goal                   | at least 80% of students score at least 80%          |
| Results for this year        | N/A (new course)                                     |

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Course Name & Number         | Introduction to Human-Computer Interaction (ITC 125) |
| University Requirements Menu | Social Sciences                                      |
| General Education Competency | 2: Inquiry                                           |
| Assessment Method            | Maker Lab Rapid Prototypes                           |
| Acceptable Goal              | at least 80% of students score at least 70%          |
| Ideal Goal                   | at least 80% of students score at least 80%          |
| Results for this year        | N/A (new course)                                     |