

## Approval Chart for Curriculum Changes

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

Course Number ITC 250 - History of Computing or Degree Plan(s) \_\_\_\_\_

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

We propose creating a new course : ITC 250 - History of Computing.

The course application and other supporting documents are attached.

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 | UUAC | 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       | A         |
| 5.  | Number of hours (lecture, lab, contact)                                                                           | A                    | A                | A     | A   |      |      |      | A       | A         |
| 6.  | Course number within the hundred                                                                                  | A                    | A                | I     | I   |      |      |      | I       | I         |
| 7.  | Course number beyond the hundred                                                                                  | A                    | A                | A     | A   |      |      |      | A       | A         |
| 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       | A         |
| 11. | Cross list with another department: U or G level                                                                  | A                    | A                | A     | A   |      |      |      | A       | A         |
| 12. | Department of record                                                                                              | A                    | A                | A     | A   |      |      |      | A       | A         |
| 13. | Open or close a course                                                                                            | A                    | A                | A     | A   |      |      |      | A       | A         |
| 14. | New course — See website for application and process.<br>This change includes combining or splitting a course(s). | A                    | A                | A     | A   |      |      |      | A       | A         |

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 | Faculty | President |
| 1.                   | General requirements for graduation including course requirements that are common to all majors for all degrees <sup>7</sup> | --           | --               | --    | A    |      |      | A       | A       | A         |
| 2.                   | Admission requirements                                                                                                       | --           | --               | --    | A    |      |      | A       | A       | A         |
| 3.                   | Policies governing academic probation and suspension                                                                         | --           | --               | --    | A    |      |      | A       | A       | A         |
| 4.                   | Requirements for graduating with honors                                                                                      | --           | --               | --    | A    |      |      | A       | A       | A         |
|                      |                                                                                                                              |              |                  |       |      |      |      |         |         |           |
| 5.                   | Other academic policy changes                                                                                                | --           | --               | --    | 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 3-8-17

## Curriculum/Catalog Changes Signature Page

|                                                                                                |                          |
|------------------------------------------------------------------------------------------------|--------------------------|
| Department/School Chair(s)                                                                     |                          |
| <br>Signature | 3-05-18<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date   |

|                                                                                                |                         |
|------------------------------------------------------------------------------------------------|-------------------------|
| College Academic Council(s)                                                                    |                         |
| <br>Signature | 3-5-18<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date  |

|                                                                                                |                         |
|------------------------------------------------------------------------------------------------|-------------------------|
| Dean(s)                                                                                        |                         |
| <br>Signature | 3/5/18<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date  |

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

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

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

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

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

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

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

# Application for a New Course v10.6

|                                            |         |
|--------------------------------------------|---------|
| <b>Course ID</b> <i>Subject and Number</i> | ITC 250 |
| <b>Date APPROVED</b>                       |         |
| <b>Date DENIED</b>                         |         |

## I. Systems and Catalog Information Complete each item.

|     |                                                                                           |                                                                                                                                                                                                                                                                                                                                                              |
|-----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Course Developer                                                                          | John Homer                                                                                                                                                                                                                                                                                                                                                   |
| 2   | Course Teacher                                                                            | John Homer                                                                                                                                                                                                                                                                                                                                                   |
| 3   | Course Title                                                                              | History of Computing                                                                                                                                                                                                                                                                                                                                         |
| 4   | Course Abbreviation (if title is over 30 characters)                                      |                                                                                                                                                                                                                                                                                                                                                              |
| 5   | College                                                                                   | COBA                                                                                                                                                                                                                                                                                                                                                         |
| 6   | Department                                                                                | School of Information Technology & Computing                                                                                                                                                                                                                                                                                                                 |
| 7   | Number of Credit Hours                                                                    | 3                                                                                                                                                                                                                                                                                                                                                            |
| 8a. | Number of contact hours - lecture                                                         | 3                                                                                                                                                                                                                                                                                                                                                            |
| 8b. | Number of contact hours – lab/activity                                                    | 0                                                                                                                                                                                                                                                                                                                                                            |
| 9   | Is the course for a fixed or variable number of credit hours?                             | fixed                                                                                                                                                                                                                                                                                                                                                        |
| 10  | Explanation for variable credit                                                           |                                                                                                                                                                                                                                                                                                                                                              |
| 11  | Is the course repeatable for additional credit?                                           | no                                                                                                                                                                                                                                                                                                                                                           |
| 12  | Maximum total number of credit hours a student can earn for this course                   | 3                                                                                                                                                                                                                                                                                                                                                            |
| 13  | What type of course is this?<br>(Select one. Please see Schedule Type definitions above.) | <input checked="" type="checkbox"/> Traditional lecture<br><input type="checkbox"/> Traditional lab<br><input type="checkbox"/> Traditional lecture/lab<br><input type="checkbox"/> Experiential Learning<br><input type="checkbox"/> Seminar<br><input type="checkbox"/> Studio<br><input type="checkbox"/> Thesis<br><input type="checkbox"/> Dissertation |

|     |                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14  | Instructor Workload                                                                                                                                                                                                   | 3                                                                                                                                                                                                                                                                                                                              |
| 15  | Grade Mode (check all appropriate):                                                                                                                                                                                   | <input checked="" type="checkbox"/> _X_Standard<br><input type="checkbox"/> _Credit/No Credit (undergrad only)                                                                                                                                                                                                                 |
| 16  | Maximum Enrollment                                                                                                                                                                                                    | 80                                                                                                                                                                                                                                                                                                                             |
| 17  | <b>Catalog Description</b><br>(50 words or less)                                                                                                                                                                      | This course will examine the causes and development as well as the immediate and long-term effects of innovations in computing, to build a greater knowledge and appreciation of historical events and trends and a fuller understanding of how computing has developed as a discipline and affected broader cultural history. |
| 18  | List any prerequisites (course/s, test scores, class standing, major, etc.)                                                                                                                                           | none                                                                                                                                                                                                                                                                                                                           |
| 19  | List any co-requisites                                                                                                                                                                                                | none                                                                                                                                                                                                                                                                                                                           |
| 20  | If the course is cross listed, specify the Course ID(s); MUST have signature in Section V from all Department Chairs                                                                                                  |                                                                                                                                                                                                                                                                                                                                |
| 21  | Does this course have any special student costs?                                                                                                                                                                      | <input checked="" type="checkbox"/> _X_No<br><input type="checkbox"/> _Yes                                                                                                                                                                                                                                                     |
| 22a | How frequently will the course be offered in the <b>Fall</b> ?<br>All, even or odd years?                                                                                                                             | ---                                                                                                                                                                                                                                                                                                                            |
| 22b | How frequently will the course be offered in the <b>Spring</b> ?<br>All, even or odd years?                                                                                                                           | Spring, all years                                                                                                                                                                                                                                                                                                              |
| 22c | How frequently will the course be offered in the <b>Summer</b> ?<br>All, even or odd years?                                                                                                                           | ---                                                                                                                                                                                                                                                                                                                            |
| 23  | First semester this course will be offered as an approved course<br><i>New courses may not be taught under their approved course ID until they appear in the catalog, therefore, no earlier than the coming fall.</i> | Spring 2019 or as January short course in Jan <del>2019</del><br>2019                                                                                                                                                                                                                                                          |
| 24  | List course/s that should be deleted, (Also, include the last semester for course/s being deleted)<br><i>A course cannot be deleted when it is a requirement in a degree plan in any department.</i>                  | We do not plan to delete any courses. However, we have been offering two sections of CS 120 (each with 20-25 students) every fall semester; if this course is approved, we will combine these into one larger section (40-50 students) to open up a teaching slot for this course.                                             |

|    |                                                                                                                                                                                                                             |                                                                                                                                                          |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25 | Is this course required for a degree/s?<br><i>If "Yes," attach a revised degree plan(s) reflecting the placement of the new course.</i>                                                                                     | <input checked="" type="checkbox"/> _X_No<br><input type="checkbox"/> _Yes                                                                               |
| 26 | Should the addition of this course be retroactively applied to the degree plan it supports?                                                                                                                                 | <input type="checkbox"/> _No<br><input type="checkbox"/> _Yes<br>Explanation:                                                                            |
| 27 | Has this course been offered as a Special Topics course?                                                                                                                                                                    | <input type="checkbox"/> _No<br><input checked="" type="checkbox"/> _X_Yes<br><br>An initial version of this course was taught in Oxford in summer 2017. |
| 28 | List any courses in which the content overlaps the proposed course.<br>(Course ID and Name)<br><i>Attach a statement from the instructor/dept chair of the existing course justifying the new offering in Section IV-D.</i> |                                                                                                                                                          |

## II. Curriculum

|   |                                                                                                                              |                                                                                                                                                                                                                                            |
|---|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Degree Plan</b><br><br>Explanation of how this course affects degree requirements.                                        | This course will not be immediately required of any degree plan. We may choose to require it for SITC majors in future.                                                                                                                    |
| 2 | <b>Justification</b><br><br>State the justification for adding this course to the current curriculum.<br>Represent the need. | Everyone uses computers but many students have little knowledge or understanding of the historical development that has led to our modern technological culture. This course will encourage exploration and consideration of that history. |

### III. Course Design

#### 1. Audience and Course Goal

|   |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Describe the intended audience, including prerequisite skills. | This course is designed for all students interested in learning about the historical timeline and events contributing to the modern technological culture. The course content assumes as prerequisite knowledge a basic understanding of American and world history, especially 1930-present, in which framework we will consider the introduction and effects of computing processes and technologies. We expect the course to be of strong interest to SITC majors, of course, but also broadly across all students who are interested in the historical events and trends that have contributed to current technologies and culture. |
| 2 | State the overarching course goal(s) in performance terms.     | This course will introduce students to the progenitors of our modern technological culture, examining the causes and development as well as the immediate and long-term effects of innovations in computing. Through this course students will gain a greater appreciation of historical events and trends and a fuller understanding of how computing has developed as a discipline and affected broader cultural history.                                                                                                                                                                                                             |

#### 2. Competencies and Measurements

|   | Competency                                                                                                                                                                                                            | Measurement                                                                                                                                                                                              |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Identify key developments and events in the history of computing                                                                                                                                                      | <ul style="list-style-type: none"><li>- Blog contributions, both original posting and response to other students' posts</li><li>- Participation in daily class discussion</li><li>- Final exam</li></ul> |
| 2 | Recognize notable personalities in history of computing, and analyze in depth the work of some chosen person                                                                                                          | <ul style="list-style-type: none"><li>- Biographic paper</li><li>- Participation in daily discussion</li><li>- Final exam</li></ul>                                                                      |
| 3 | Discuss the immediate and long-term change of some person or event in computing innovation and practice as well as in broader culture. Address (where possible) broad and/or recurrent themes of causation and change | <ul style="list-style-type: none"><li>- Biographic paper</li><li>- Historical analysis paper</li></ul>                                                                                                   |
| 4 | Analyze primary sources as well as later perspectives to address the formative environment, motivations, development and effect of some chosen person, event, innovation, or bounded time period                      | <ul style="list-style-type: none"><li>- Biographic paper</li><li>- Historical analysis paper</li></ul>                                                                                                   |
| 5 | Evaluate the advancement, growth and sustainability of current innovations, practices or trends based on similarity to past occurrences                                                                               | <ul style="list-style-type: none"><li>- Blog contributions, both original posting and response to other students' posts</li></ul>                                                                        |

1. Give the full publication information of the textbook/s and other required resources and outside readings.

**required**

The Universal History of Computing: From the Abacus to the Quantum Computer.  
Georges Ifrah. John Wiley & Sons, Inc., 2001.

**optional / recommended**

When Computers Were Human. David Alan Grier. Princeton University Press, 2005.

2. For **combined undergraduate/graduate** courses, make two lists:

- a. full publication information; label **Undergraduate**.
- b. full publication information; label **Graduate**. Indicate number of pages required.

## IV. Supporting Documentation

*Supporting documents must accompany proposal prior to preliminary approval by chair and dean.*

|   |                                                                                                                                                                                                                                                                                                                                         |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Library</b> — Submit new course application and syllabus to the Dean of the Library. Consult with the director and establish a deadline for completion of the library report. <b>Attach</b> the signed copy of the Library report.                                                                                                   |
| 2 | <b>Instructional Design</b> — The application and syllabus must be reviewed by the Adams Center. <b>Attach</b> a copy of the Adams Center Review Letter.                                                                                                                                                                                |
| 3 | <b>Content Overlap</b> — Include one document for each course you listed in Section I-I. <b>Attach</b> statement from instructor/dept chair of existing course justifying the new offering.                                                                                                                                             |
| 4 | <b>Departmental Resources</b> — List the resources that support the course and are available only through the department, if applicable. <b>Attach</b> the list of the holdings and the location/s.                                                                                                                                     |
| 5 | <b>Resources</b> — List resource's (other than library or departmental resources) that are needed to support this course (computers, lab equipment, other technology, etc.). <b>Attach</b> a complete list of all items and indicate possible sources or estimated cost of each. List the sources of any needed funds.                  |
| 6 | <b>Expenses</b> — List additional expenses needed to implement this course (full-time or part-time faculty, graduate or lab assistants, student employees, travel, special student costs, room renovation, storage facility, etc.). <b>Attach</b> a complete list of all items, the estimated cost of each and the source of the funds. |
| 7 | <b>Justification</b> — <b>Attach</b> all documents referred to in Section II-2                                                                                                                                                                                                                                                          |
| 8 | Syllabus — <b>Attach</b> the syllabus for the course based upon the anticipated first-semester offering.                                                                                                                                                                                                                                |
| 9 | Provide documentation for all additional attachments here                                                                                                                                                                                                                                                                               |

## V. Preliminary Approvals

All supporting documentation has been assembled and attached to this application. I believe this course is ready to be presented to appropriate councils. We have a plan to fund this new course.

Course Number and Name ITC 250 - HISTORY OF COMPUTING

### Primary Department

[Signature]  
Department Chair  
Dean of the College

2.26.18  
Date

[Signature]

2/26/18  
Date

**Cross-listing Department** *Add more lines if multiple departments are cross-listing*

\_\_\_\_\_  
Department Chair  
Dean of the College

\_\_\_\_\_  
Date

\_\_\_\_\_

\_\_\_\_\_  
Date

**Cross-listing Department** *Add more lines if multiple departments are cross-listing*

\_\_\_\_\_  
Department Chair  
Dean of the College

\_\_\_\_\_  
Date

\_\_\_\_\_

\_\_\_\_\_  
Date

**VI. Actions** *Place all actions on one page.*

Course ID: ITC 250

Course Title: HISTORY OF COMPUTING

**1. College Academic Council:** (for all courses)

Note: Insert additional lines for College Academic Council action for each college involved in cross-listed courses.

Approved ☒

Denied ☐

David Perkins  
College Dean or Director

Date

2-26-18

Approved ☐

Denied ☐

\_\_\_\_\_  
College Dean or Director

\_\_\_\_\_  
Date

**2. Graduate Council:** (for graduate level courses)

Approved ☐

Denied ☐

\_\_\_\_\_  
Dean of Graduate School

\_\_\_\_\_  
Date

**3. Teacher Education Council:** (when applicable)

Approved ☐

Denied ☐

\_\_\_\_\_  
TEC Chair

\_\_\_\_\_  
Date

**4. University General Education Council:** (when applicable)

Approved ☐

Denied ☐

\_\_\_\_\_  
Provost's designee

\_\_\_\_\_  
Date

**5. University Undergraduate Academic Council:** (*undergraduate level courses*)

Approved ☐

Denied ☐

\_\_\_\_\_  
Vice Provost

\_\_\_\_\_  
Date

**6. Academic Provost:** (for all courses)

Approved ☐

Denied ☐

\_\_\_\_\_  
Provost

\_\_\_\_\_  
Date

**7. President of the University:** (for all courses)

Approved ☐

Denied ☐

\_\_\_\_\_  
President

\_\_\_\_\_  
Date

Attach notes, comments, or conditions from appropriate councils:

ITC 250 – HISTORY OF COMPUTING  
SPRING 2019 – DR. JOHN HOMER



**Contact**

Email / Phone: [jdh08a@acu.edu](mailto:jdh08a@acu.edu) / 325-674-6603

Email is not a real-time communication medium.

The instructor will attempt to respond to all emails within one working day.

**Office: 241 Mabee Business Building**

The instructor intends to be available in office at these times: *Mon | Wed | Fri, 1:00–4:00 pm.*

Students with questions will be assisted in order of arrival, with reasonable limits applied in order to help as many as possible. The instructor may also be available to meet at other times, by prearranged appointment. *Note:* these office hours are subject to change if schedule conflicts appear during the semester; students will be informed of any changes.

**Course Description, Audience and Outline**

*History of Computing* will examine the causes and development as well as the immediate and long-term effects of innovations in computing, to build a greater knowledge and appreciation of historical events and trends and a fuller understanding of how computing has developed as a discipline and affected broader cultural history. This 3-credit-hour course is designed for all students interested in learning about the historical timeline and events contributing to the modern technological culture. We will explore the history of computing from early concepts and inventions through to modern day. A fuller knowledge of this history will increase appreciation for both opportunities and challenges presented to the modern church & Christian discipleship today. No prerequisites are specified for this course, but the course design assumes a basic understanding of recent world history, in which framework we will consider the introduction & effects of computing concepts and technologies. Course content and discussion will follow a generally chronological timeline with focus on the rapid growth in computing technologies in the decades since 1940.

**Course Details: Location / Time / Textbook / Website**

Class will meet TR 9:30 – 10:50 am, in MBB 301

*The Universal History of Computing: From the Abacus to the Quantum Computer*, Georges Ifrah

Course notes, resources and assignments are available online at <http://acu.instructure.com>.

**Assessment**

At the end of the semester, a grade in { A,B,C,D,F } will be used to categorize your performance. Your grade will be *earned* by you, **not** assigned to you. Your progress toward course goals will be assessed through:

- **Participation in class discussion** (20%)  
Useful and appropriate involvement in class discussion;  
participation may also be assessed through in-class quizzes
- **Blog contributions** (20%)  
Useful and appropriate contributions in an online course discussion, both as original postings on given topics and in responses to other students' postings  
Some people may be asked to deliver brief presentations during class based on these.
- **Biographic paper** (20%)  
Research and write a cogent, thorough paper about the roles and contributions of an historical figure (chosen with instructor approval)
- **Historical analysis paper** (20%)  
Drawing on topics introduced and discussed in class, bolstered by independent research, write a cogent, thorough paper about the causes and environment for a notable historical event or during a significant period (chosen with instructor approval)
- **Final exam** (20%)  
Cumulative examination covering all course content

## Competencies and Measurements

|   | Competency                                                                                                                                                                                                            | Measurement                                                                                                                                                                                              |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Identify key developments and events in the history of computing                                                                                                                                                      | <ul style="list-style-type: none"><li>- Blog contributions, both original posting and response to other students' posts</li><li>- Participation in daily class discussion</li><li>- Final exam</li></ul> |
| 2 | Recognize notable personalities in history of computing, and analyze in depth the work of some chosen person                                                                                                          | <ul style="list-style-type: none"><li>- Biographic paper</li><li>- Participation in daily discussion</li><li>- Final exam</li></ul>                                                                      |
| 3 | Discuss the immediate and long-term change of some person or event in computing innovation and practice as well as in broader culture. Address (where possible) broad and/or recurrent themes of causation and change | <ul style="list-style-type: none"><li>- Biographic paper</li><li>- Historical analysis paper</li></ul>                                                                                                   |
| 4 | Analyze primary sources as well as later perspectives to address the formative environment, motivations, development and effect of some chosen person, event, innovation, or bounded time period                      | <ul style="list-style-type: none"><li>- Biographic paper</li><li>- Historical analysis paper</li></ul>                                                                                                   |
| 5 | Evaluate the advancement, growth and sustainability of current innovations, practices or trends based on similarity to past occurrences                                                                               | <ul style="list-style-type: none"><li>- Blog contributions, both original posting and response to other students' posts</li></ul>                                                                        |

## Attendance

You are expected to attend and fully engage in every class session. Attendance requires, of course, your physical presence in the classroom, but also preparation beforehand and attentiveness throughout the class session. Before each class, you should have completed already any assigned reading or other work and be prepared to ask pertinent questions about recent or new course topics from the text or homework. If you are unprepared for class, clearly occupied with other materials, or asleep during class, you may be counted absent even though you are physically present. If you are absent more than five times during the semester, your course grade will be reduced 2% for each additional absence (e.g., a student with six absences will have grade reduced 2%, seven absences would cause 4% reduction, eight cause 6%, etc.)

**Use of Computers, Cell Phones, etc.**

Students will not be allowed to use any type of computational, communicational or combustible device during class time, except when directed to do so by the instructor as part of an in-class activity, designated "lab" working time, or assessment. All materials used by the instructor in the class session (notes and examples) will be made available to students online. If you believe that a reasonable exemption from this rule should be made for you, please see the instructor.

**Academic Integrity**

Students are expected to abide by the University's policies and principles of academic integrity.

Learning is often a collaborative process. You may find yourself able to help another student locate resources or explore a concept they do not understand and another time find yourself in need of similar assistance. You are encouraged to discuss assignments and ideas, to help each other to learn, but you may not provide a solution to another student or use a solution you have not created. Except when properly cited, your submitted writing must be your own work, with reference to external resources or any other person.

All academic integrity violations identified in this course will be treated in full compliance with university policy. After thorough investigation and a meeting with the student(s) involved, the incident will be reported to the Office of Student Life. A first violation of the policy will cause a score of zero for the assignments or exams sourcing or containing copied materials. A second violation will cause an immediate removal from the course with a failing grade.

**Students with Disabilities**

Abilene Christian University is committed to providing a learning atmosphere that reasonably accommodates qualified persons with disabilities. If you believe that you have a disability that may impair your capacity to successfully complete this course, please contact the Alpha Scholars Program (325-674-2667).

**Mission Statements**

The mission of Abilene Christian University is to educate students for Christian service and leadership throughout the world. We achieve our mission by providing a supportive, welcoming, Christ-centered community in which we foster academic excellence through innovative education, real-world learning opportunities, and faculty-guided research.

The mission of the College of Business & Technology in ACU is to educate business and technology professionals for Christian service and leadership throughout the world, accomplished through (1) holistic student learning and development, (2) research and innovation, and (3) service and leadership.

The mission of the School of Information Technology and Computing is to educate students in technology-related fields for Christian service and leadership throughout the world.

# ACU Syllabus Checklist 2017

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## \* 1. Course Title and Number

ITC250: History of Computing

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## \* 2. Reviewer

Berlin Fang

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## \* 3. Developer

Dr. John Homer

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## \* 4. About the Course

- ☒ Course number and title
  - ☒ Credit hours
  - ☒ Semester and year
  - ☒ Meeting time and place
  - ☒ Prerequisites/co-requisites
- 

## \* 5. About the Instructor(s)

- ☒ Name and title or rank
  - ☒ Office location
  - ☒ Phone number(s)
  - ☒ Email address
  - ☒ Office hours/contact expectations
- 

## \* 6. Mission Statements

- ☐ ACU mission statement
  - ☒ College mission statement
  - ☐ Department mission statement
  - ☐ Personal mission statement (optional)
- 

## \* 7. Unique Christian Perspective

- ☐ Description of how learning and Christian faith are integrated in the course
-

## \* 8. Course Content

- ☐ Outline of topics
  - ☒ catalog description
  - ☒ Intended audience
  - ☒ Format of course/type of activities student should expect in the course
- 

## \* 9. Materials

- ☒ Required and optional materials, including textbooks, etc.
- 

## \* 10. Learning Objectives/Competencies

- ☒ Specific competencies stated in measurable terms
  - ☒ Assignments or instruments that will be used to assess the competencies
- 

## \* 11. Assessment/Grading Criteria

- ☒ Complete and accurate details of factors and elements that will comprise the final grade
  - ☒ Weight or point value of all graded elements
  - ☒ Grading scale with clear expectations for grades
  - ☐ Extra credit opportunities (optional)
- 

## \* 12. University Policies

- ☒ Special needs policy - ADA
  - ☒ Academic integrity policy
  - ☐ Title IX policy (recommended)
- 

## \* 13. Course Policies

Expectations and consequences regarding:

- ☒ Attendance and tardiness
  - ☒ Participation
  - ☐ Course specific academic integrity policy (optional)
- 

## \* 14. Calendar

(Note: Calendar is not required for Course Application, but it must be included in all syllabi distributed to students.)

- ☐ Exam dates
- ☐ Assignments
- ☐ Due dates and other deadlines
- ☐ Late assignment/exam policy
- ☐ Schedule of readings and topics
- ☐ Statement to reserve the right to modify the calendar as necessary

\* 15. Any comments?

Submit

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# ABILENE CHRISTIAN UNIVERSITY

## LIBRARY

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### M E M O R A N D U M

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**DATE:** March 28, 2018  
**TO:** John Homer  
**FROM:** Mark McCallon, Associate Dean for Library Services  
**RE:** Course Application for ITC 250 – History of Computing

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After reviewing the course application, the library is able to support the proposed course. Please contact your librarian liaison, Mark McCallon ([mccallonm@acu.edu](mailto:mccallonm@acu.edu)), if additional library resources are needed to support the course. Thank you for the opportunity to evaluate the syllabus and course proposal.