

## **UC DAVIS 2015-16 UPDATE ON MAJORS AND CURRICULUM REPORT**

UC Davis course and major agreements have been published for the 2015-16 academic year. Significant changes are summarized below. Please see ASSIST for full details.

### **A. CHANGES TO MAJORS**

#### **New Majors:**

**Cognitive Science, A.B. and B.S.**

#### **Title Changes to Majors:**

**Cinema and Digital Media, A.B.** (formerly Technocultural Studies)

**Gender, Sexuality and Women's Studies** (formerly Women's Studies)

#### **Discontinued Major:**

**Film Studies, A.B.**

#### **Selective Major Criteria Changes:**

See transfer selection and TAG websites for complete details regarding criteria affecting fall 2016 and future transfer applicants:

- Transfer Selection: [http://admissions.ucdavis.edu/admission/transfers/tr\\_select\\_majors.cfm](http://admissions.ucdavis.edu/admission/transfers/tr_select_majors.cfm)
- TAG Criteria: <http://tag.ucdavis.edu/counselors/changes.cfm>
  - Go to: Counselor Resources, TAG Process, Changes for fall 2016

#### **College of Engineering**

Fall 2016 applicants must take courses comparable to those required on ASSIST for the desired College of Engineering major. The College of Engineering will honor all engineering articulations effective during the 2014-15 academic year as shown on ASSIST.

Following are the ASSIST changes of note from 2013-14 to 2014-15:

- TAG applicants for fall 2016 and later in the Biochemical Engineering major, Chemical Engineering major and Materials Science and Engineering major must complete Engineering (ENGIN) 6 or Engineering Computer Science (ENG CS) 30 or Chemical Engineering and Materials Science (ENG CMS) 6.
- The 2014-15 ASSIST agreement now reflects these changes in effect for fall 2015 TAG applicants and continuing for fall 2016 TAG applicants:

- The Electrical Engineering major and Computer Engineering major no longer include a requirement for completion of Electrical and Computer Engineering (ENG E&C) 70 or Engineering Computer Science (ENG CS) 50.
- The Materials Science and Engineering major no longer includes a requirement to complete Engineering (ENG) 35. Though not required, completion of Engineering 35 is recommended.
- See advisories for F16 and F17 applicants to the College of Engineering, available at [http://admissions.ucdavis.edu/admission/transfers/trfr\\_stmr\\_ce.cfm](http://admissions.ucdavis.edu/admission/transfers/trfr_stmr_ce.cfm) and <http://tag.ucdavis.edu/counselors/changes.cfm>

### **College of Letters and Science:**

There were no changes to fall 2016 selection criteria.

Effective fall 2017, Computer Science will become a selective major. Applicants for fall 2017 and later must meet or exceed the minimum overall GPA of 2.80 (TAG applicants require a 3.20 GPA from the time their TAGs are submitted up to the time of enrollment). Students must complete courses comparable to the following UC Davis courses with a GPA of at least 3.00 for each of the two course groups:

- Mathematics 21A/B/C
- Engineering Computer Science (ENG CS) 20, 30, 40

Courses must be taken for a letter grade, with no grade less than C, or by satisfying the course by using AP or IB credit. Required courses must be completed by the end of spring term prior to enrollment. Students must have already achieved the minimum required GPA in the course(s) that have been completed before submitting the UC TAG Application.

### **Non-Selective Curriculum Changes to Majors:**

**Anthropology, A.B.: Evolutionary Track:** ANTHRO 24, 25, 28, 50, 54 and SOCIOL 46B added as option for preparatory subject matter

**Anthropology, A.B. - Sociocultural Track:** Option of quarter or year abroad removed as part of preparatory subject matter.

**Anthropology, B.S.:** SOCIOL 46B added as option for preparatory subject matter.

**Biological Sciences, B.S.:** Added one course from CLASSIC 31, PHILOS 15, 30, 31, 32, 38, SCI&SOC 9, 13, 15 or 20 to preparatory subject matter.

**Biotechnology, B.S.:** ENG CS 20, 30, 40, 50, 60 added to the Bioinformatics option.

**Cinema and Digital Media:** Formerly Technocultural Studies; see ASSIST for revised curriculum.

**Classical Civilization, A.B. - Classical and Mediterranean Civilizations Track:** Hebrew courses removed from preparatory subject matter; CLASSIC 30/31 now count toward the major.

**Classical Civilization, A.B. – Classical Languages and Literatures Track:** Hebrew courses removed from preparatory subject matter.

**Communication, A.B.:** COMUNCN 10Y added to preparatory subject matter. SOCIOL 46B added as an option to STATIST 13.

**Environmental Policy Analysis and Planning, B.S.:** BIOLSCI 10V/NEMATOL 10V removed from preparatory subject matter. SCI&SOC 25 added to curriculum for area of specialization titled Climate Change Policy.

**Environmental Science and Management, B.S.:** Added recommended courses of CHEM 2C or 2CH to preparatory subject matter.

**Gender, Sexuality and Women’s Studies, A.B.:** Name change from Women’s Studies, A.B. See ASSIST for revised curriculum.

**Global Disease Biology, B.S.:** Added STATIST 13 to preparatory subject matter.

**International Relations, A.B.:** Added POL SCI 2 to preparatory subject matter. IGETC is now recommended for this major that became non-selective last year.

**Managerial Economics, B.S.:** Changes to English Composition requirements—now choose one course from COMUNCN 1 or 3. AGRESEC 18 added to preparatory subject matter. PL SCI 21 added as one course that may be selected from a group of courses. Major options (consisting of upper-division courses) have changed and are viewable in the General Catalog Supplement. The Managerial Economics option has been eliminated. Remaining are the Environmental and Resource Economics and Agricultural Economics options. New are the Business Economics and International Business Economics options.

**Philosophy, A.B.:** Added new emphases of Pre-Law and Pre-Med. See ASSIST for preparatory subject matter in each emphasis.

**Theatre and Dance, A.B.:** DRAMART 55 added to preparatory subject matter.

**Wildlife, Fish and Conservation Biology, B.S.:** COMUNCN 3 or DRAMART 10 added to options for completion of Written/Oral Expression. See the General Catalog Supplement for revised Areas of Specialization that include upper-division coursework: 1) Wildlife and Conservation Biology, 2) Fish Biology, 3) Wildlife Health\*, 4) Individualized. \*The Wildlife Health Area of Specialization includes lower-division courses in Chemistry and Physics found on ASSIST.

## **B. CHANGES TO COURSES**

### **Course Prefixes (new):**

<b>GDISBIO</b>	Global Disease Biology
<b>HUMRGHT</b>	Human Rights

**Courses Added (new):**

<b>COMUNCN 10Y</b>	Introduction to Communication (4); <i>W15</i> GE: SS
<b>DRAMART 55</b>	Contemporary Local, National and Global Theatre, Dance and Performance (4); <i>F15</i> GE: AH, DD, VL, WC
<b>ENG AER 10</b>	From the Wright Brothers to Drones and Quadcopters (2); <i>Su15</i> GE: SE, SS
<b>ENGLISH 5NF</b>	Introduction to Creative Writing: Non-Fiction (4); <i>F15</i> GE: AH, WE
<b>GDISBIO 90</b>	Introduction to Global Disease Biology (1); <i>F14</i> GE: None [formerly PL PATH 90, not previously included in ASSIST]
<b>GEOLOGY 18V</b>	Energy and the Environment (3); <i>W15</i> GE: SE, SL, WE
<b>GEOLOGY 25V</b>	Geology of the National Parks (3); <i>S15</i> GE: SE
<b>HUMRGHT 1</b>	Human Wrongs/Human Rights (4); <i>F15</i> GE: AH, SS, WC, WE
<b>N A STD 7</b>	Indigenous and Minority Languages (4); <i>F15</i> GE: AH, DD, SS, WC, WE
<b>NE PH B 17</b>	The Path to Cyborgs: Introduction to Prostheses and Human Machine Interfaces (3); <i>W16</i> ; GE: SE, SL
<b>PHILOS 10</b>	Introduction to Cognitive Science (4); <i>F14</i> GE: SE, SL
<b>REL STD 1J</b>	Music, Voice and the Word (4); <i>S15</i> GE: AH, WC
<b>SCI&amp;SOC 41</b>	Understanding Performance: Appreciation of Modern Theatre, Dance, Film and Performance Art for the Humanities and Sciences (4); <i>W15</i> GE: AH, DD, OL, VL, WC, WE [same as DRAMART 5]

**Courses Added to ASSIST (change from prior ASSIST listing):**

The following courses are not actually new; they were formerly shown on ASSIST as AN SCI 49: Ani Mgmt Practices. Now, in addition to AN SCI 49, each course (A-J) is separately identified. Articulation is not available for AN SCI 49K-Animal Management Practices: Captive and Companion Avian (2).

<b>AN SCI 49A</b>	Animal Management Practices: Aquaculture (2)
<b>AN SCI 49B</b>	Animal Management Practices: Beef (2)
<b>AN SCI 49C</b>	Animal Management Practices: Dairy (2)
<b>AN SCI 49D</b>	Animal Management Practices: Goats (2)
<b>AN SCI 49E</b>	Animal Management Practices: Horses (2)
<b>AN SCI 49F</b>	Animal Management Practices: Laboratory Animals (2)
<b>AN SCI 49G</b>	Animal Management Practices: Meats (2)
<b>AN SCI 49H</b>	Animal Management Practices: Poultry (2)
<b>AN SCI 49I</b>	Animal Management Practices: Sheep (2)
<b>AN SCI 49J</b>	Animal Management Practices: Swine (2)

The following courses are not actually new; they were formerly shown on ASSIST as COMPLIT 10A-N: Master Authors. Now courses A-E are separately identified on ASSIST, each with the title Master Authors. Courses F-N can be found in our General Catalog, but are not available for articulation; they are not part of GE or major preparation.

<b>COMPLIT 10A</b>	Master Authors (2)
<b>COMPLIT 10B</b>	Master Authors (2)
<b>COMPLIT 10C</b>	Master Authors (2)
<b>COMPLIT 10D</b>	Master Authors (2)
<b>COMPLIT 10E</b>	Master Authors (2)

### **Courses Removed From ASSIST (change from prior ASSIST listing):**

**ENGIN 1**                      Intro to Engineering (1)

This course is not available for articulation. The recommendation for engineering majors to take an introduction to engineering course prior to transfer has been removed from ASSIST agreements. While students are encouraged to take introduction to engineering courses as available at their CCC, they will not articulate to UC Davis ENGIN 1.

### **Courses Discontinued/Cancelled:**

<b>ARTHI 10</b>	Twenty Monuments (4); <i>F15</i>
<b>BIOLSCI 10V</b>	General Biology (4); <i>S15</i> [cross-listed with NEMATOL 10V, which remains]
<b>ENGLISH 30A**</b>	Survey of American Literature (4); <i>S15</i>
<b>ENGLISH 30B**</b>	Survey of American Literature (4); <i>S15</i>
<b>ENGLISH 46A**</b>	Masterpieces of English Literature (4); <i>S15</i>
<b>ENGLISH 46B**</b>	Masterpieces of English Literature (4); <i>S15</i>
<b>ENGLISH 46C**</b>	Masterpieces of English Literature (4); <i>S15</i>
<b>PL PATH 90</b>	Introduction to Global Disease Biology (1); <i>F14</i> [now GDISBIO 90]
<b>TCULST 2</b>	Critiques of Media (4); <i>W15</i>
<b>TCULST 4</b>	Parallels in Art and Science (4); <i>F14</i>
<b>TCULST 6</b>	Technoculture and the Popular Imagination (4); <i>F14</i>

\*\*Colleges who have not yet done so should submit course outlines for courses formerly articulated with UCD ENGLISH 30A/B and/or 46A/B/C for consideration of articulation with ENGLISH 10A/B/C. Check ASSIST for details.

### **Course Title Changes:**

<b>ARTHI 5</b>	From: Introduction to Visual Culture To: Understanding Visual Culture; <i>S15</i>
<b>ARTHI 25</b>	From: Introduction to Architectural History To: Understanding Architecture; <i>F14</i>
<b>BIOLSCI 10</b>	From: General Biology To: Everyday Biology; <i>W16</i>
<b>CINE &amp; TC 41B</b>	From: History of Cinema from 1945 to now To: History of Cinema from 1945 to present; <i>F14</i>

<b>COMPLIT 53A</b>	From: Literature of China and Japan To: Literature of East Asia; <i>S15</i>
<b>COMPLIT 53B</b>	From: Literature of India and Southeast Asia To: Literature of South Asia; <i>S15</i>
<b>ENG CIV 3</b>	From: Introduction to Civil and Environmental Engineering Systems To: Civil Infrastructure and Society; <i>W16</i>
<b>ENG MAT 2</b>	From: Stuff: Diversity of Materials in our Lives To: Materials Marvels; <i>W16</i>

**Unit Changes:**

<b>COMPLIT 53A</b>	From: 3 To: 4; <i>S15</i>
<b>COMPLIT 53B</b>	From: 3 To: 4; <i>S15</i>
<b>COMPLIT 53C</b>	From: 3 To: 4; <i>F15</i>
<b>DRAMART 10</b>	From: 3 To: 4; <i>S15</i>

**Other Course Changes:**

<b>CHEM 8A</b>	From: Prerequisite course CHEM 2B, grade of ‘C-’ To: Prerequisite course CHEM 2B, grade of ‘C’ Students planning to complete CHEM 8A at UC Davis must have completed their prerequisite course with a grade of ‘C’ or higher.
<b>NEMATOL 10V</b>	No longer cross-listed with BIOLSCI 10V [cancelled]

**General Education 3 (GE3) Added:**

The ASSIST ‘*For General Education/Breadth*’ agreement lists each GE area separately on the pull-down menu. The following reflects GE area added; *term effective*:

<b>ANTHRO 3</b>	SS; <i>S15</i>
<b>ARTHI 1D</b>	VL; <i>W15</i>
<b>ARTHI 5</b>	AH, VL, WC; <i>S15</i>
<b>ARTHI 25</b>	DD; <i>F14</i>
<b>BIOLSCI 10</b>	SL, WE; <i>W16</i>
<b>COMPLIT 53A</b>	OL; <i>S15</i>
<b>COMPLIT 53C</b>	OL; <i>F15</i>
<b>DRAMART 40A</b>	AH, VL; <i>F14</i>
<b>DRAMART 40B</b>	AH, VL; <i>F14</i>
<b>RUSSIAN 3</b>	OL; <i>S15</i>
<b>RUSSIAN 5</b>	OL; <i>S15</i>
<b>RUSSIAN 6</b>	OL; <i>S15</i>
<b>SPANISH 1</b>	AH; <i>W16</i>
<b>SPANISH 2</b>	AH; <i>W16</i>
<b>SPANISH 23</b>	AH; <i>W16</i>
<b>SPANISH 24</b>	AH; <i>W16</i>
<b>SPANISH 31</b>	AH; <i>W16</i>
<b>SPANISH 33</b>	AH; <i>W16</i>

**GE Key****TB - Topical Breadth**

AH – Arts and Humanities  
SE – Science and Engineering  
SS – Social Sciences

**CL - Core Literacies**

ACGH – American Culture, Governance and History  
DD – Domestic Diversity  
OL - Oral Literacy  
QL – Quantitative Literacy  
SL – Scientific Literacy  
VL – Visual Literacy  
WC – World Cultures  
WE – Writing Experience

**General Education 3 (GE3) Deleted:**

The following reflects GE area deleted; *term effective:*

<b>ARTHI 1C</b>	ACGH, DD; <i>W16</i>
<b>ARTHI 1D</b>	WE; <i>W15</i>
<b>ENG CIV 3</b>	QL; <i>W16</i>
<b>ENVHORT 1</b>	WE; <i>W16</i>
<b>EVOL&amp;EC 12</b>	WE; <i>S15</i>

**C. OTHER CHANGES**

There were no substantive changes to Departments, Minors or articulation with AP/IB examinations

**D. IMPORTANT UPDATES, HELPFUL TIPS AND REMINDERS****Maintaining Strong Articulation with Community Colleges:**

UC Davis encourages community college Articulation Officers to submit articulation proposals for your UC-transferable courses via email; please submit course outlines in PDF format whenever possible. UC Davis articulates on a course-to-course basis.

**Transfer Student Advisory:**

UC Davis requires that students complete UC transfer admission requirements by the end of spring term prior to fall enrollment. In order to receive priority consideration it is strongly recommended that transfer students complete UC transfer admission requirements in English and mathematics by the end of fall term prior to enrollment.

**Update Your School's Course Availability for UC Davis Applicants:****CCC courses affecting fall 2016 selective major applicants to UC Davis**

If your campus has not offered courses this 2015-16 academic year or must drop, cancel or severely limit courses during winter or spring terms that are comparable to UC Davis courses required for selective majors, please use our online reporting system at <http://admissions.ucdavis.edu/tag/ccCourseReductions/> to notify us of these changes. Please work with your colleagues to have one person submit course availability information for your campus. Please submit any changes by February 1, 2016 so that we can take these into consideration before making admission decisions for fall 2016.

## **Advanced Placement (AP) and International Baccalaureate (IB) Examinations:**

Students planning to satisfy UC Davis course requirements with Advanced Placement (AP) or International Baccalaureate (IB) examinations should carefully review the campus AP and IB examination credit charts available in the Undergraduate Admissions section of the UC Davis General Catalog and General Catalog Supplement.

IB Chart: <http://catalog.ucdavis.edu/PDF/02GenCatUgradAdmiss.pdf> (p. 39-40)

AP Chart: <http://catalog.ucdavis.edu/pdfsupp.html> (see the most recent General Catalog Course Supplement, Policies & Requirements Addendum)

## **Chemistry and Organic Chemistry Preparation:**

### **Non-selective majors requiring chemistry and/or organic chemistry**

Students are strongly encouraged to complete the chemistry and/or organic chemistry series prior to enrolling at UC Davis as it will help decrease time to degree for majors with these graduation requirements. See ASSIST for details regarding these non-selective majors in the Colleges of Agricultural and Environmental Sciences and Letters and Science, especially: Animal Science, Animal Science and Management, Applied Physics, Chemical Physics, Chemistry (A.B., B.S. Applied), Clinical Nutrition, Nutrition, Pharmaceutical Chemistry, Physics B.S.

## **Computer Science and Computer Science & Engineering Majors:**

### **New Website - Plan for Transfer Success**

Students planning Computer Science or Computer Science and Engineering majors are encouraged to view the new UC Davis Computer Science website

<http://www.cs.ucdavis.edu/undergraduate/transfer/> to best plan for transfer student success.

## **Articulation Proposals:**

### **DESIGN 14, 15, 21, 31, 77**

Following are elements that must be demonstrated in course outlines deemed comparable:

#### DES 14: Design Drawing

- ideation, drawing a wide range of objects from observation
- basic skills in objective observation and representation including line, shape, tone, volume, and space
- understanding of rendering multi view and perspective drawings

#### DES 15: Color and Form

- line, form, color
- color mixing and interaction of color
- expressive color pattern
- create explorations with a variety of materials and media



DES 16: Graphic Design and Computer Technology

- fundamentals of Adobe Photoshop and Illustrator
- basic use of typography

DES 21: Drafting and Perspective

- drawing plans, sections, and elevations- one and two point perspectives
- isometric and/or axonometric views of buildings

DES 31: Photography for Designers

- Digital imaging for designers with an emphasis on digital photography, black and white processes, and imaging techniques; Critical analysis of photographs, and the role of photography in society, by combining theoretical perspectives with practical applications. Explore use and meaning of the single photographic image through collage techniques, grids, triptychs and image sequencing. This class will explore photographic processes for the documentation of creative work and as the basis of visual communication.

DES 77: Introduction to Structural Design for Fashion

- flat pattern development and construction

**HISTORY – All Courses**

When requesting articulation to UC Davis history courses, please include information regarding the required writing assignments for your course; our faculty wants to know the assignment type (formal essay, in-class response, research paper) and the number of words required. Our History Department requests documentation substantiating the need for one out-of-class essay with a 1000 word minimum. If not included in your outline, submission of syllabi and/or class assignment sheets in addition to course outlines is encouraged. Please submit outlines to Cindy Bevc in PDF format.

**MATHEMATICS – All Courses**

We encourage you to reference posted syllabi for UC Davis Mathematics courses for more detail regarding our courses. Visit our online resource at <http://www.math.ucdavis.edu/courses/syllabi>.

**MATHEMATICS 16A/B/C vs. 17A/B/C - Calculus**

The primary differences between the Mathematics 17 and Mathematics 16 series are that (1) the applications/examples presented in Mathematics 17 are more focused on biological issues, and (2) a wider variety of topics is covered in the Mathematics 17 series. Besides reviewing pre-calculus and covering differential and integral calculus, Mathematics 17 covers linear algebra and analytical geometry, as well as systems of differential equations. Furthermore, Mathematics 17 covers discrete probability more thoroughly than Mathematics 16. Because of this extra material, Mathematics 17 proceeds at a faster pace than Mathematics 16, and therefore there is a need for a discussion section. You are encouraged to view course syllabi available at <http://www.math.ucdavis.edu/courses/syllabi>.

**MATHEMATICS 22A (Linear Algebra) vs. MATHEMATICS 67 (Advanced Linear Algebra)**

For more information on the differences between UC Davis Mathematics 22A and 67, please reference <http://www.math.ucdavis.edu/courses/syllabi> to view posted syllabi for each course.

**SOCIOL 46B – Introduction to Social Research**

This UC Davis course provides students a foundation in understanding the logics of quantitative analysis, in using the most elementary statistical techniques, and in evaluating the quality of sociological research that uses statistics. It covers elementary descriptive and inferential statistics and topics include frequency distribution, measures of variation, statistical inference and comparison of different groups of populations.

Following are elements that must be demonstrated in course outlines deemed comparable:

- Computer lab hours: at least 10
- Computer lab instruction on the relevant statistical procedures using real data and a statistical software program.
  - Present data in tabular and graphical form.
  - Choose measures of central tendency and dispersion.
  - Demonstrate knowledge of probability theory by expressing, numerically, conclusions based on sample data.
  - Formulate and solve problems involving the normal distribution and the central limit theorem.
  - Test hypotheses.
  - Form confidence intervals for the mean (in both large and small samples), the difference between means and proportions (in large samples).
  - Use correlation and regression formulae to evaluate the strength of a relationship and do predictions.
  - Use the statistical software MINITAB to accomplish the bullets above related to computer lab instruction.

**STATISTICS 13 – Elementary Statistics**

UC Davis faculty reviews a variety of elements to determine comparability of community college courses with our statistics courses and some among them follow. If your course outline of record does not address these elements, additional documentation may be requested.

- basic statistical concepts, including population, sample, variability and sources, parameter, experiment, replication and statistical reasoning
- descriptive statistics including numerical and graphical methods
- basic probability concepts, including sample space, event, probability, addition and multiplication rules, and counting methods
- probability models, including distributions, expectation and variance, and interpretations
- sampling and sampling distributions
- introduction to statistical inference for large/small samples, including point and interval estimation for means and proportions, significance testing, regression and correlation