UC DAVIS 2016-17
UPDATE ON MAJORS AND CURRICULUM REPORT

UC Davis course and major agreements were published for the 2016-17 academic year before September 1. Significant changes are summarized below. Please see ASSIST for full details.

A. CHANGES TO MAJORS

New Majors:

None

Changes to Major Emphases:

Anthropology, A.B. (Evolutionary Emphasis); formerly Anthropology, A.B. (Evolutionary Track)

Anthropology, A.B. (Sociocultural Emphasis); formerly Anthropology, A.B. (Sociocultural Track)

Applied Physics, B.S. (new concentrations include: Atmospheric Physics Concentration, Chemical Physics Concentration*, Computational Physics Concentration, Physical Electronics Concentration, Geophysics Concentration, Materials Science Concentration, Physical Oceanography Concentration)

Psychology, B.S. (Biological); formerly Psychology, B.S. (Biology)

Psychology, B.S. (Quantitative); formerly Psychology, B.S. (Mathematics)

**Note: Chemical Physics, B.S. is also a major in the College of Letters and Science, Chemistry Department.*

Suspended Major:

Fiber & Polymer Science, B.S. (Suspended for fall 2017 applicants; applicants should consider the Textiles and Clothing major, Textile Science option)

Selective Major Criteria Changes; Curriculum Changes for Selective Majors:

See transfer selection and TAG websites for complete details regarding criteria affecting fall 2017 and future transfer applicants:

- Transfer Selection*: https://www.ucdavis.edu/admissions/undergraduate/transfer/selective-major-requirements*
- TAG Criteria Changes 2017 (PDF) *https://www.ucdavis.edu/sites/default/files/upload/files/f17tip_criteriachanges.pdf*

College of Biological Sciences

- **Biological Sciences, A.B.:** Major selection criteria based on B.S. requirements remains the same. STATIST 13 or 32 removed. MATH 17A/B or 21A/B moved from recommended to required. MATH 17C or 21C is recommended.
- **Biological Sciences, B.S.:** Major selection criteria remains the same. Removed recommended courses CLASSIC 31; PHILOS 15, 30, 31, 32, 38; SCI&SOC 13, 15, 20.

College of Engineering

Fall 2017 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 2016-17 academic year and those effective during the 2015-16 academic year, as shown on ASSIST, with the exceptions noted below:

- **Computer Science & Engineering, B.S.:** ENG E&C 70 removed; however, note that ENG CS 50 remains required.
- **Electrical Engineering, B.S.** majors are no longer required to complete the following courses for admission selection: COMUNCN 1 or 3, ENGIN 6, ENGLISH 3 or UWRITING 1. These courses are strongly recommended to be completed if possible before transferring and are moved from Required for Admission to Required for Graduation.
- **Mechanical Engineering, B. S.** majors are no longer required to complete the following courses for admission selection: COMUNCN 1 or 3, ENGIN 45, ENGLISH 3 or UWRITING 1, PHYSICS 9D. These courses are strongly recommended to be completed if possible before transferring and are moved from Required for Admission to Required for Graduation.

Applicants in all engineering majors must complete all lower-division major requirements with a cumulative GPA of 3.20 or higher for those courses completed at the time of application and through the transfer academic update filing period. The overall GPA required is 3.10 (3.30 for TAGs).

See advisories for F17 applicants to the College of Engineering, available at *https://www.ucdavis.edu/admissions/transfer/major-requirements-college-engineering* and *https://www.ucdavis.edu/sites/default/files/upload/files/f17tip_criteriachanges.pdf*

College of Letters and Science:

Computer Science, B.S. is a selective major effective fall 2017. 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 3.40 for each of the two course groups:

- MATH 21A/B/C
- ENG CS 20, 30

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. ENG CS 40 is strongly recommended prior to transfer; however, it is no longer required for transfer admission selection as previously published. ENG E&C 70 removed; ENG CS 50 remains required.

The **Psychology** major no longer requires Psychology 41 for purposes of admission selection. Both B.S. degree emphases have added PHYSICS 10C as an option to fulfil non-selective major preparatory subject matter.

Curriculum Changes to Non-Selective Majors:

Applied Physics, B.S.: Multiple changes to curriculum related to new course concentration areas.

Asian American Studies, A.B.: Multiple AMR STD courses added to major preparatory options.

Atmospheric Science, B.S.: ENGIN 6 added as preparation for graduation.

Classic Civilization, A.B. (Classical & Mediterranean): CLASSIC 4 added to group of courses from which to choose one course.

Community & Regional Development, B.S.: Added English composition courses to major preparation; students must choose two courses from the group.

Ecological Management & Restoration, B.S.: Removed PLT SCI 21 and GEOL 35. SCI&SOC 18 added.

Environmental Policy Analysis & Planning, B.S.: PHYSICS 1A added. CHEM 10 option added.

Environmental Science and Management, B.S.: Added LND ARC 60 to Watershed Science Track options (omitted prior year).

Film Studies, A.B.: Removed major from ASSIST (2015-16 notice of discontinuance effective F15).

Human Development, A.B.: PHIL 15 added to options from which students choose two courses.

Landscape Architecture, B.S.: SOIL SCI 10 added.

Political Science, A.B.: Added POL SCI 5 to major preparation; four courses from POL SCI 1, 2, 3, 4, 5 now required; Removed ECON, HISTORY, PHILOS courses.

Political Science – Public Service, A.B.: Removed recommended courses ECON 1A, 1B.

Religious Studies, A.B.: Added REL STD 1J. Removed REL STD 90 (now HUM RTS 90).

Sociology, A.B. (Social Services): Added SOCIOL 1; preparation changed from SOCIOL 2 and 3 to SOCIOL 2 or 3.

Sociology – Organizational Studies, A.B.: Added SOCIOL 4.

Sustainable Environmental Design, B.S.: Added options POLSCI 11A, 11B, 11C, 11D, 12A, 12Y or SOC 12Y.

Technocultural Studies, A.B.: Removed major from ASSIST (notice of name change to cinema and digital media effective F15).

Textiles and Clothing, A.B. (Marketing/Economics): Added statement regarding use of foreign language units toward restricted electives.

Textiles and Clothing, A.B. (Textile Science): CHEM 128, 128B, 128C added to restricted electives. Added statement regarding use of foreign language units toward restricted electives.

B. CHANGES TO DEPARTMENTS

International Relations - department deleted; INT REL courses now located under the department Political Science. The International Relations major is now under the department Political Science.

Plant Biology – department restored to ASSIST (new course PLT BIO 10)

Women and Gender Studies – department name change to **Gender, Sexuality and Women's Studies.**

C. CHANGES TO COURSES

Course Prefixes (new):

PERSIAN (Department: Classics)

Courses Added (new):

Course	**Title (Units); *Start Term - GE3 areas:***
ANTHRO 29	Vikings (2); *S16* GE: SS, WC
ARABIC 21A	Accelerated Intensive Intermediate Arabic *(Not for ASSIST articulation)*
ARABIC 21C	Colloquial Egyptian Arabic (4); *S16* GE: AH
ARABIC 22C	Colloquial Egyptian Arabic (4); *S16* GE: AH

ARABIC 23C	Colloquial Egyptian Arabic (4); *S16* GE: AH
CHEM 3A	Chemistry for Life Sciences: Determining Structure and Predicting Properties (5); *F16* GE: SE, QL, SL
CHEM 3B	Chemistry for Life Sciences: Predicting and Characterizing Chemical Change (5); *F16* GE: SE, QL, SL
CHEM 3C	Chemistry for Life Sciences: Controlling Processes and Synthetic Pathways (5); *F16* GE: SE, QL, SL
CLASSIC 4	Late Antiquity (4); *S16* GE: AH, WC, WE
CLASSIC 10Y	Greek, Roman, and Near Eastern Mythology (3); *W16* *(Hybrid, Not for ASSIST articulation)*
CLASSIC 40	Life and Economy in the Ancient Mediterranean World (4); *F16* GE: AH, VL, WC, WE
CLASSIC 51	Ancient Medicine (4); *W16* GE: AH, WC, WE; *(Same course as SCI&TEC 51)*
COMPLIT 11	Travel and the Modern World (4); *S16* GE: AH, VL, WC, WE; *(Same course as: GERMAN 11)*
COMUNCN 12Y	Data Visualization in the Social Sciences (4); *F16* GE: QL, VL *(Same course as: POL SCI 12Y, PSYCH 12Y, SOCIOL 12Y)*
ENGIN 2	Creativity and Entrepreneurship for Engineers (3); *F15* GE: SE or SS
ENGIN 3	Introduction to Engineering Design (4); *W17* GE: SE, SS, OL
ENGLISH 41	Introductory Topics in Literature and Media (4); *F16* GE areas: AH, VL, WE *(Course will not be taught until F17).*
EVOL&EC 17	Dining with Darwin: Evolutionary Insights Into Your Diet (3); *F16* GE: SE, SS, WC
EVOL&EC 20	Darwinian Medicine (3); *F17* GE: SE, QL, SL
FD S&T 55	Food in American Culture (4); *S16* GE: AH or SS, ACGH, DD, WE
GERMAN 11	Travel and the Modern World (4); *S16* GE: AH, VL, WC, WE; *(Same course as COMPLIT 11)*
HEBREW 11	Introduction to Biblical Hebrew (3); *W17* GE: AH
HEBREW 12	Introduction to Biblical Hebrew (3); *S17* GE: AH
HISTORY 1	Introduction to History (2); *S16* GE: SS, WC, WE
LND ARC 10	World Regional Geography (3); *S16* GE: AH or SS, WC
MGMT 12Y	Navigating Life's Financial Decisions (3); *W16* GE: SS, QL
PERSIAN 1	Elementary Persian (5) ; *F16*

	GE: AH, WC
PERSIAN 2	Elementary Persian (5); *W17* GE: WC
PERSIAN 3	Elementary Persian (5); *S17* GE: AH, WC
PERSIAN 21	Intermediate Persian (5); *F16* GE: AH, WC
PERSIAN 22	Intermediate Persian (5); *W17* GE: AH, WC
PERSIAN 23	Intermediate Persian (5); *S17* GE: AH, WC
PLT BIO 10	Plant Biology (3); *W16* GE: SE, SL
POL SCI 11A	America Decides: Who Will Win This Year's Election? (4); *F16* GE: SS, ACGH, WE
POL SCI 11B	Citizen Lawmaking: Direct Democracy, Public Policy & Political Representation in America (4); *F16* GE: ACGH, SS, WE
POL SCI 11C	Politics and Film (4); *F16* GE: SS, ACGH, VL, WE
POL SCI 11D	Political Persuasion (4); *F16* GE: SS, WE
POL SCI 12A	Politics and Sports (4); *F16* GE: SS, WE
POL SCI 12Y	Data Visualization in the Social Sciences (4); *F16* GE: QL, VL *(Same course as COMUNCN 12Y, PSYCH 12Y, SOCIOL 12Y)*
PSYCH 1Y	General Psychology (4); *F16* *(Hybrid, Not for ASSIST articulation)*
PSYCH 12Y	Data Visualization in the Social Sciences (4); F16 GE: QL, VL *(Same as COMUNCN 12Y, POL SCI 12Y, SOCIOL 12Y)*
SCI&SOC 14	Forests and Society (3); *F16* GE: SE, OS, SL, WE
SCI&TEC 51	Ancient Medicine (4); *W16* GE: AH, WC, WE *(Same course as CLASSIC 51)*
SOCIOL 12Y	Data Visualization in the Social Sciences (4); *F16* GE: QL, VL *(Same course as COMUNCN 12Y, POL SCI 12Y, PSYCH 12Y)*
UWRITING 27	Persuasive Writing for Multilingual Students (4); *S16* GE: WE
W&F BIO 51*	Introduction to Conservation Biology (3); *S16* GE: SE, SL; *Number change from W&F BIO 11

Discontinued Courses:

Course	**Title (Units); *End Term***
DESIGN 60	Introduction to Surface Design (4); *W16*
DRAMART 21B	Fundamentals of Acting (4); *W16*

GERMAN 6	Conversational German (4); *S17*
HUMAN 18	Performing Arts Today [Performance and the 21st Century] (4); *W16*
PL SCI 8	Fruit and Nut Production [Fruits and Nuts of California and the World] (3); *W16*
REL STD 90	Human Rights (4); *W16*
W&F BIO 11*	Introduction to Conservation Biology (3); *S16* *Number change to W&F BIO 51

General Education (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*:

ART 7	AH, VL; *S16*
CHEM 2AH	QL**,** SE, SL; *F16*
CHEM 2A	SL; *F16*
CHEM 2B	SL; *F16*
CHEM 2BH	*QL, SE,* SL; *F16*
CHEM 2CH	QL, SE, SL; *F16*
CHEM 2C	SL; *F16*
CHEM 128A	SE; *W17*
CHEM 128B	SE; *W17*
CHEM 128C	SE; *W17*
CHEM 129A	SE; *W17*
ENG CS 40	VL; *F16*
ENGLISH 10A	WE; *F16*
ENGLISH 10B	WE; *F16*
ENGLISH 10C	WE; *F16*
HISTORY 3	WC; *W17*
ITALIAN 8A	OL, WC; *W17*
ITALIAN 8B	WC; *W17*
PHYSICS 12	SL; *W17*
RUSSIAN 4	OL; *W17*
SPANISH 1	AH; *S16*
SPANISH 2	AH; *S16*
SPANISH 3	AH; *S16*
SPANISH 22	AH; *S16*

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 – ACHG: Domestic Diversity
OL - Oral Skills Literacy
QL – Quantitative Literacy
SL – Scientific Literacy
VL – Visual Literacy
WC – World Cultures
WE – Writing Experience

General Education (GE3) Deleted:

The following reflects GE area deleted; *term effective*

HISTORY 3	WE; *W17*

Other Course Changes:

ANTHRO 2 Title Change; *W17*:
To: Cultural Anthropology
From: Cultural Anthro)

ART 10 Title Change; *F16*:
To: Fine Art Appreciation
From: Art Appreciation [Introduction to Art Appreciation]

CLASSIC 50 Title Change; *F16:*
To: Ancient Science
From: Rise Sci Anc Greece [The Rise of Science in Ancient Greece]

D. OTHER CHANGES

Changes to Advanced Placement (AP) Articulation and International Baccalaureate (IB) Examination Articulation:

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 at http://catalog.ucdavis.edu (pages 41-48) or in the counselor resources section of our TAG website https://www.ucdavis.edu/admissions/undergraduate/transfer/transfer-admission-guarantee/counselors. Considerable changes were made to the UC Davis IB examination chart.

Highlights of AP examination articulation changes for the UC Davis campus include:

Music Theory Completion with a score of 3, 4, 5 is awarded credit for Music 3. Campus articulation changed effective with the May 2016 AP exam. Prior to this date completion with a score of 3, 4, 5 is awarded credit for Music 10. No duplicate credit allowance.

Physics 1 Completion with a score of 5, 4 is awarded credit for Physics 1A, 1B. No duplicate credit allowance; 8 transferable unit maximum for all Physics exams.

Physics 2 Completion with a score of 5, 4 is awarded credit for Physics 1A. No duplicate credit allowance; 8 transferable unit maximum for all Physics exams.

F. 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 2017 selective major applicants to UC Davis
If your campus has not offered courses this 2016-17 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, 2017 so that we can take these into consideration before making admission decisions for fall 2017.

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, Chemical Physics, Chemistry (A.B., B.S. Applied), Clinical Nutrition, Nutrition, Pharmaceutical Chemistry

Computer Science and Computer Science & Engineering Majors:

Students planning Computer Science or Computer Science and Engineering majors are encouraged to view the 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: Form and Color
- 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 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. View course syllabi available at *http://www.math.ucdavis.edu/courses/syllabi*.

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