Palo Alto 2016-2017 College Catalog Sample Course Descriptions	Academic Course Guide Manual (ACGM) and Workforce Education Course Manual (WECM) Course Descriptions (http://www.thecb.state.tx.us/apps/wecm/PubDispRegular.cfm?CRSID=3484) http://www.thecb.state.tx.us/AAR/UndergraduateEd/WorkforceEd/acgm.htm)
ENGL 1301 - Composition I **Prerequisites:** Demonstrate College Readiness through appropriate placement scores and/or completion of developmental sequence in English and/or Reading. **Integrated Reading & Writing Basic Skills Prerequisite:** INRW 0420 Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. This course fulfills the Communication foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, Teamwork, and Personal Responsibility. **Semester Hours:** (3-3-0) **CIP:** 23.0401.51 12	**ENGL 1301 Composition I (ACGM)** Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Approval Number: 23.1301.51 12 maximum SCH per student 3 maximum SCH per course 3 maximum contact hours per Course 64 **Learning Outcomes** **Upon successful completion of this course, students will:** Demonstrate knowledge of individual and collaborative writing processes. Develop ideas with appropriate support and attribution. Write in a style appropriate to audience and purpose. Read, reflect, and respond critically to a variety of texts. Use Edited American English in academic essays.
ARTS 1317 - Drawing II **Prerequisites:** ARTS 1316 **Integrated Reading & Writing Basic Skills Prerequisite:** Ready for INRW 0420 Investigation of drawing media and techniques including descriptive and expressive possibilities. **Semester Hours:** (3-3-3) **CIP:** 50.0705.52 26	**ARTS 1317 Drawing II (ACGM)** A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline. Approval Number: 50.0705.52 26 maximum SCH per student 3 maximum SCH per course 3 maximum contact hours per Course 96 **Learning Outcomes** **Upon successful completion of this course, students will:** Describe visual subjects through the use of accurate and sensitive observation.

	Generate drawings which demonstrate descriptive, expressive, and conceptual approaches with an increased focus on individual expression. Utilize varied materials and techniques, including color media, with informed aesthetic and conceptual strategies. Demonstrate an appropriate level of professional practice, including safety, craft and presentation. Analyze and critique drawings verbally and/or in writing. Relate their drawings to historical and contemporary developments in the field.
CHEM 1411 - General Chemistry I **Prerequisites:** Successful completion of MATH 1314 or MATH 1414 with a grade "C" or better. **Integrated Reading & Writing Basic Skills Prerequisite:** INRW 0420 **Math Basic Skills Prerequisite:** MATH 0320 This course covers the fundamental principles of inorganic chemistry: general chemical principles, fundamental laws and theories, including but not limited to modern atomic theory, chemical bonding, states of matter, solutions, stoichiometry, thermochemistry and gas laws. The course content provides a foundation for work in advanced chemistry and related sciences, and as such is aimed at science majors. This course is math-intensive (MI). The prospective student needs to have a good working knowledge of the use of scientific notation, including use of calculator, exponential and logarithmic functions, significant figures, dimensional analysis, and solving simple linear equations. This course fulfills the Life and Physical Sciences foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, Empirical Quantitative Skills, and Teamwork. **Semester Hours:** (4-3-3) **CIP:** 40.0501.52 03	**CHEM 1411 General Chemistry I (lecture + lab) (ACGM)** This lecture and lab course should combine all of the elements of 1311 General Chemistry I Lecture and 1111 General Chemistry I Lab, including the learning outcomes listed for both courses. Approval Number: 40.0501.54 03 maximum SCH per student 4 maximum SCH per course 4 maximum contact hours per Course 112
CSME 1505 - Fundamentals of Cosmetology **Special Program Tuition:** $300 **Integrated Reading & Writing Basic Skills Prerequisite:** INRW 0420	**Fundamentals of Cosmetology** (WECM) CIP | Rubric | Number | Course Title | Status | Semester Credit Hrs | Min Cont Hrs | Max Cont Hrs

Math Basic Skills Prerequisite: MATH 0410 A course in the basic fundamentals of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out. **Semester Hours:** (5-3-8) **CIP:** 12.0401	<table><tr><td>12.0401</td><td>CSME</td><td>1005</td><td>Fundamentals of Cosmetology</td><td>Active</td><td>0</td><td>112</td><td>176</td></tr><tr><td>12.0401</td><td>CSME</td><td>1405</td><td>Fundamentals of Cosmetology</td><td>Active</td><td>4</td><td>112</td><td>160</td></tr><tr><td>12.0401</td><td>CSME</td><td>1505</td><td>Fundamentals of Cosmetology</td><td>Active</td><td>5</td><td>112</td><td>176</td></tr></table> **Course Level:** Introductory **Course Description:** A course in the basic fundamentals of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out. **End-of-Course Outcomes:** Identify fundamental concepts related to skills required by the Texas Department of Licensing and Regulation (TDLR); demonstrate basic required skills by TDLR standards. **Licensing/Certification Agency:** Texas Department of Licensing and Regulations **CIP Code Description:** 12.0401 (Cosmetology/Cosmetologist, General) **Effective Date:** September 1, 2014
DRAM 1330 - Stagecraft I This course is an introduction to the major areas of design and technology. A hands-on approach to stagecraft with a focus on the elements of design. Participation on technical crews for theatre productions may be required. **Semester Hours:** (3-3-0) **CIP:** 50.0502.51 26	**DRAM 1330 Stagecraft I (ACGM)** Study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. Approval Number: 50.0502.51 26 maximum SCH per student 3 maximum SCH per course 3 maximum contact hours per Course 96 **Learning Outcomes** **Upon successful completion of this course, students will:** Apply a vocabulary and knowledge of the environment, tools, and skills required to mount a theatrical production. Demonstrate knowledge of the variety of work required to mount a theatrical production. Describe the collaborative nature of production within theatre arts.
GOVT 2305 - Federal Government **Integrated Reading & Writing Basic Skills Prerequisite:** INRW 0420 Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election	**GOVT 2305 Federal Government (Federal constitution & topics) (ACGM)** Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. Approval Number: 45.1002.51 25 maximum SCH per student 3 maximum SCH per course 3 maximum contact hours per Course 48 **Learning Outcomes** **Upon successful completion of this course, students will:**

process, public policy, civil liberties and civil rights.
This course fulfills the Government/Political Science foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, Social Responsibility, and Personal Responsibility.

Semester Hours: (3-3-0)

CIP: 45.1002.51 25

Explain the origin and development of constitutional democracy in the United States.
Demonstrate knowledge of the federal system.
Describe separation of powers and checks and balances in both theory and practice.
Demonstrate knowledge of the legislative, executive, and judicial branches of the federal government.
Evaluate the role of public opinion, interest groups, and political parties in the political system.
Analyze the election process.
Describe the rights and responsibilities of citizens
Analyze issues and policies in U.S. politics.

HALT 2318 - Soil Fertility and Fertilizers

An in-depth study of the chemistry, soil interaction, plant uptake, and utilization of essential plant nutrients. Topics include deficiency and toxicity symptoms, and the selection, application, and characteristics of fertilizer materials.

Semester Hours: (3-2-2)

CIP: 01.0601

Soil Fertility and Fertilizers

(WECM)

CIP	Rubric	Number	Course Title	Status	Semester Credi
01.0601	HALT	2018	Soil Fertility and Fertilizers	Active	0
01.0601	HALT	2318	Soil Fertility and Fertilizers	Active	3
01.0601	HALT	2418	Soil Fertility and Fertilizers	Active	4

Course Level: Intermediate

Course Description: An in-depth study of the chemistry, soil interaction, plant uptake, and nutrients. Topics include deficiency and toxicity symptoms, and the selection, application, a materials.

End-of-Course Outcomes: Describe the functions of essential elements in plants; calculate application rates; and list various fertilizer materials available for use on horticultural plants

CIP Code Description: 01.0601 (Applied Horticulture/Horticultural Operations, General)

Effective Date: September 1, 2012

ITCC 2413 - CCNA 4: Connecting Networks

Prerequisites: ITCC 1440

Corequisites: ITCC 2412

WAN technologies and network services required by converged applications in a complex network; enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements.

CCNA 4: Connecting Networks (WECM)

Vendor Specific Course

A Generic Course is available as follows: Not Available

CIP	Rubric	Number	Course Title	Status	Semester C Hrs
11.1002	ITCC	2013	CCNA 4: Connecting Networks	Active	0
11.1002	ITCC	2313	CCNA 4: Connecting Networks	Active	3

Semester Hours: (4-3-2) **CIP:** 11.1002	11.1002 | ITCC | 2413 | CCNA 4: Connecting Networks | Active | 4 **Course Level:** Advanced **Course Description:** WAN technologies and network services required by converged appli enables students to understand the selection criteria of network devices and WAN technolo **End-of-Course Outcomes:** Configure and troubleshoot network devices Resolve common resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks; impl operations in a complex network; implement security best practices. **Licensing/Certification Agency:** Cisco **Lab Recommended** **CIP Code Description:** 11.1002 (System, Networking, and LAN/WAN Management/Mana **Effective Date:** September 1, 2016
KINE 2113 - Physical Conditioning II **Prerequisites:** KINE 1113 or instructor approval This course is a continuation of KINE 1113 with a focus on more intense workouts and advanced techniques to promote cardiorespiratory endurance, muscular strength, muscular endurance, and flexibility. **Semester Hours:** (1-0-3) **CIP:** 36.0108.51 23	**PHED 21xx Physical Activities (ACGM)** **KINE** (Kinesiology) may be used as an alternate Common Numbering rubric for PHED courses. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of eight credits.) NOTE: Any number in ranges 1100-1150 and 2100-2150 may be used for Physical Education activity and Recreational Dance, as opposed to theory/classroom courses. Because such courses are so numerous and their specific course equivalency typically is not a significant transfer credit issue, no attempt has been made in the ACGM and the TCCN Matrix to standardize individual numbers within these ranges. Approval Number: 36.0108.51 23 maximum SCH per student 8 maximum SCH per course 1 maximum contact hours per Course 48
MATH 1414 - College Algebra (Precal Track) **Integrated Reading & Writing Basic Skills Prerequisite:** INRW 0420 **Math Basic Skills Prerequisite:** MATH 0320 In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.	**MATH 1414 College Algebra (4 SCH version) (ACGM)** In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Approval Number: 27.0101.54 19 maximum SCH per student 4 maximum SCH per course 4 maximum contact hours per Course 64 **Learning Outcomes** **Upon successful completion of this course, students will:** Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.

This course fulfills the Mathematics foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, and Empirical Quantitative Skills. **Semester Hours:** (4-4-0) **CIP:** 27.0101.54 19	Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations. Apply graphing techniques. Evaluate all roots of higher degree polynomial and rational functions. Recognize, solve and apply systems of linear equations using matrices.
MUAP 1261 - Guitar **Special Program Tuition:** $150 **Prerequisites:** Instructor permission **Corequisites:** Any MUEN course Individual instruction in guitar. May be repeated for credit. **Semester Hours:** (2-2-0) **CIP:** 50.0903.54 26	**MUAP 1200 Individual Instruction (ACGM)** Individual instruction in voice, instrument, composition, or conducting. The common number format for MUAP courses is a 4-digit number. The 1st digit denotes the level of the course (1 for freshman, 2 for sophomore) and the 2nd digit represents the SCH value. A range of possible 3rd & 4th digits identifies the subject and course sequence. This single course number represents the range of approved individual instruction courses that may be offered for 2 semester credit hours. Approval Number: 50.0903.54 26 maximum SCH per student 20 maximum SCH per course 2 maximum contact hours per Course 32
VTHT 2321 - Veterinary Parasitology **Prerequisites:** VTHT 1109 , VTHT 1203 , VTHT 1205 , VTHT 1301 , VTHT 1313 Study of parasites common to domestic animals including zoonotic diseases. **Semester Hours:** (3-2-4) **CIP:** 51.0808	**Veterinary Parasitology** (WECM) **CIP** | **Rubric** | **Number** | **Course Title** | **Status** | **Semester Credit** 51.0808 | VTHT | 2321 | Veterinary Parasitology | Active | 3 51.0808 | VTHT | 2421 | Veterinary Parasitology | Active | 4 **Course Level:** Intermediate **Course Description:** Study of parasites common to domestic animals including zoonotic di **End-of-Course Outcomes:** Identify internal and external parasites including those of publi parasite life cycles to their prevention and control. **Lab Recommended** **CIP Code Description:** 51.0808 (Veterinary/Animal Health Technology/Technician and V **Effective Date:** September 1, 2014