PROPOSAL

COURSE DISCIPLINE :   ADMJ

COURSE NUMBER :   160

COURSE TITLE (FULL) :   Community and the Justice System

COURSE TITLE (SHORT) :   Community and the Justice System

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID :   AJ 160

CATALOG DESCRIPTION

ADMJ 160 examines the complex, dynamic relationship between communities and the justice system. While studying the theoretical concepts of law enforcement, students learn the history of multiculturalism in the U.S. and discuss the key issues that plague communities of color such as implicit bias, racism and excessive force. Students have opportunities to explore better strategies for policing multi-cultural communities, including but not limited to, alternatives to incarceration.

CATALOG NOTES
N/A

Total Lecture Units:3.00
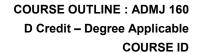
Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours:54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	ENGL - 100 - Writing Workshop	Prerequisite	Added
Or	ESL - 141 - Grammar and Writing IV	Prerequisite	Added
&	SOC - 101 - Introduction To Sociology	Recommended Preparation	Added
&	ETH S - 121 - Ethnic and Racial Minorities	Recommended Preparation	Added

ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	ENGL	100	Writing Workshop	Read, analyze, and evaluate contemporary articles and stories to identify topic, thesis, support, transitions, conclusion, audience, and tone;	Yes
2	ENGL	100	Writing Workshop	read, analyze, and evaluate contemporary articles and stories for the comprehension of difficult content and the identification of main ideas and (topic-based) evidence;	Yes
3	ENGL	100	Writing Workshop	write a summary of a contemporary article or story with correct citation techniques;	Yes
4	ENGL	100	Writing Workshop	write compositions (e.g., summaries and argumentative essays) that are easy to read and follow, though some errors in grammar, mechanics, spelling, or diction may exist;	Yes
5	ENGL	100	Writing Workshop	proofread and edit essays for content, language, citation, and formatting problems.	Yes

6	ESL	141	Grammar and Writing IV	Compose a 400 to 450-word thesis-based essay which: (a) summarizes and cites appropriately a reading passage provided as a prompt, (b) includes a clear thesis statement, (c) uses evidence to support the thesis, (d) shows clear organization into an introduction, body, and conclusion, and (e) uses appropriate rhetorical modes such as comparison/contrast, cause/effect, and persuasion in order to support a thesis.	Yes
7	SOC	101	Introduction To Sociology	apply the sociological imagination to a variety of contemporary social phenomena;	Yes
8	SOC	101	Introduction To Sociology	identify, compare and apply the primary sociological perspectives;	Yes
9	SOC	101	Introduction To Sociology	describe and explain the basic dimensions of social inequality and social change in historical and contemporary society;	Yes
10	SOC	101	Introduction To Sociology	assess what social forces and organizational structures are most prominent in shaping, guiding, and influencing individual and group behavior in contemporary society.	Yes
11	ETH S	121	Ethnic and Racial Minorities	Assess the growth and diversity of ethnic and racial groups in the United States;	Yes
12	ETH S	121	Ethnic and Racial Minorities	compare and contrast important minority groups in the United States;	Yes
13	ETH S	121	Ethnic and Racial Minorities	assess the status of important minority groups in the United States;	Yes
14	ETH S	121	Ethnic and Racial Minorities	evaluate the problems facing important minority groups in the United States.	Yes

EXIT STANDARDS

1   compare and contrast theoretical concepts with present day law enforcement issues;

2   make recommendations regarding the management and policing of diverse populations;

3   list significant events related to racism or bias in American policing;

4   discuss the differences between reasonable and excessive force;

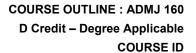5   identify and explain community corrections alternatives to incarceration.

STUDENT LEARNING OUTCOMES

1   explain the history and evolution of multiculturalism in the U.S. and the challenges for law enforcement presented by a multicultural society;

2   identify and explain key issues that pose potential conflict between diverse communities and the courts, police, and corrections;

3   identify and describe the strategies for the administration of justice in a multicultural society.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	The evolving nature of multiculturalism • History of police and community relations • Socioeconomic factors • Prejudice, bias, racial profiling, hate and bias crimes, and cross-cultural communication • Post-migration "power quest" theory • Implications of peacekeeping among the diverse cultures in the United States	9	0	9
2	Multicultural populations • Policing issues of disparity in race, gender, and class • Discrimination issues in policing • Workforce ethnic diversity: recruitment and retention from minoritized communities • Proactive awareness of cultural change	6	0	6

3	Demographics • Cultural diversity in urban versus rural communities • The influence of population size • Effects of census data • Ethnicity, race, culture, disabilities, and sexual orientation • Class structure and effects on communities • Societal intersections including immigrants, refugees, unhoused populations, mentally ill, and gangs	9	0	9

4	Policing and the community
	
	• Traditional police cultural (The Paramilitary System)
	• The Christopher Commission
	• Community Based Policing
	• The use of force and race: deadly and less-lethal force
	   ◦ Rodney King, Breonna Taylor, George Floyd
	• Systematic Inequality
	• The need for awareness and understanding of persons with intellectual and developmental disabilities
	• Reasonable versus excessive force within ethnic diversity
	   ◦ Case studies
	• Multicultural issues that relate terrorism, homeland security, and disaster preparedness
		9	0	9

5	Courts and the community • State and federal court systems • Juvenile courts • Sentencing, probation, parole, multicultural influences • The history and future of bail • Case studies and established guidelines within law enforcement that mitigate prejudice and bias	6	0	6

6	Managing/Policing diverse populations in correctional settings • Punishment and justice in the United States • Control versus custodial • Reintegration models	6	0	6
7	Strategies for facilitating conflict resolution in a multicultural society • Building universal trust - cultural training for public safety • Police commissions and review boards • Multicultural "fingerprints" for public safety • Criminal justice systems mirroring community diversity • Promoting multicultural awareness as a means of minimizing discrimination and the cultural exploitation of others in the administration of justice	9	0	9
				54

OUT OF CLASS ASSIGNMENTS

1   reading assignments;

2   review of handouts;

3   written assignments (e.g. case reviews, media perception of policing).

METHODS OF EVALUATION

1   quizzes;

2   individual and/or group projects (e.g. mock debate or case study);

3   essays (e.g. history, current, or future policing trends);

4   final exam.

METHODS OF INSTRUCTION

☑ Lecture

☐ Laboratory

☐ Studio

☑ Discussion

☑ Multimedia

☐ Tutorial

☐ Independent Study

☑ Collaboratory Learning

☐ Demonstration

☐ Field Activities (Trips)

☑ Guest Speakers

☐ Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
Multicultural Law Enforcement: Strategies for Peacekeeping in a Diverse Society	Required	Pearson	7	print	Shusta, Robert	9780134849188	2018
Criminal Law Today	Supplemental	Pearson	7	Digital	Schmalleger, Frank	9780135970409	2022

COURSE DISCIPLINE :   AT

COURSE NUMBER :   119

COURSE TITLE (FULL) :   Private Pilot Airplane Practical Test Preparation

COURSE TITLE (SHORT) :   Prac Test Prep

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID :

CATALOG DESCRIPTION

AT 119 is a ground training course designed for the student who is receiving flight training toward the private pilot certificate (license) with an airplane single engine land rating. Students will study in more depth the concepts presented during ground and flight training and learn how to apply them in real-world situations. The course includes oral practice answering scenario-based questions to prepare the student for the oral portion of the FAA practical test for the private pilot airplane certificate.

CATALOG NOTES
N/A
Total Lecture Units:2.00

Total Laboratory Units: 0.00

Total Course Units: 2.00

Total Lecture Hours:36.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 36.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	AT - 120 - Private Pilot Ground School	Recommended Preparation	Added

GLENDALE
COMMUNITY
COLLEGE

ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	AT	120	Private Pilot Ground School	apply Federal Aviation Regulations to flight;	Yes
2	AT	120	Private Pilot Ground School	perform tasks of enroute communication procedures;	Yes
3	AT	120	Private Pilot Ground School	demonstrate knowledge of weather theory;	Yes
4	AT	120	Private Pilot Ground School	evaluate aviation weather information;	Yes
5	AT	120	Private Pilot Ground School	develop the skills of navigation, including radio, pilotage, and dead-reckoning;	Yes
6	AT	120	Private Pilot Ground School	plan a cross-country flight with an overall understanding of emergency procedures.	Yes

EXIT STANDARDS

1   create a cross-country navigation log including the considerations for a go/no-go decision;
2   identify the important aspects of aeronautical decision making;
3   demonstrate correlation of information from various resources and its application to new situations that have not been specifically considered before;
4   explain how the Federal Aviation Administration (FAA) practical test will be conducted and articulate the applicant role in the oral portion of the practical test.

STUDENT LEARNING OUTCOMES

1   explain the concepts required for the safe operation of an airplane and how they are applied in practical situations;
2   discuss how the concepts can be correlated to allow the pilot to safely manage unexpected or emergency situations that may occur in flight;
3   demonstrate preparation for the oral portion of the FAA practical test for private pilot airplane applicants.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Preflight Preparation • Pilot Qualifications • Airworthiness Requirements • Weather Information • Cross-Country Flight Planning • National Airspace System • Performance and Limitations • Operation of Systems • Human Factors	12	0	12
2	Preflight Procedures • Preflight assessment • Cockpit management • Engine starting • Taxiing • Before takeoff checklist	2	0	2
3	Airport Operations • Communications and light gun signals • Airport lighting, signs, and markings • Traffic patterns	2	0	2
4	Takeoffs, Landings, and Go-arounds • Normal takeoff and climb • Normal approach and landing • Soft-field takeoff and climb • Soft-field approach and landing • Short-field takeoff and maximum performance climb • Short-field approach and landing • Forward slip to a landing • Go-around/rejected landing	2	0	2

5	Performance and Ground Reference Maneuvers • Steep turns • Ground reference maneuvers	2	0	2
6	Navigation • Pilotage and dead reckoning • Navigation systems • Air Traffic Control and radar services • Diversion to an alternate airport • Lost procedures	4	0	4
7	Slow Flight and Stalls • Maneuvering during slow flight • Power-off stalls • Power-on stalls • Spin awareness	2	0	2
8	Basic Instrument Maneuvers • Staring-and-level flight • Constant airspeed climbs • Constant airspeed descents • Turns to a heading • Recovery from unusual flight attitudes • Radio communications, navigation systems and facilities, and radar services	2	0	2
9	Emergency Operations • Emergency descent • Emergency approach and landing • Systems and equipment malfunctions and failures • Emergency equipment and survival gear	4	0	4
10	Night Operations • Night preparation • Vision at night	2	0	2

	Postflight Procedures			
11	• After landing, parking, and securing	2	0	2
				36

OUT OF CLASS ASSIGNMENTS

1   read and study the FAA materials referenced in the text;

2   notes to capture key information from various FAA sources;

3   written assignments (e.g. describing how knowledge should be applied in various piloting situations).

METHODS OF EVALUATION

1   written examinations (e.g. quizzes, mid-term exam);

2   final oral examination that simulates what may be expected in the oral portion of the FAA practical test.

METHODS OF INSTRUCTION

☑ Lecture

☐ Laboratory

☐ Studio

☑ Discussion

☑ Multimedia

☐ Tutorial

☑ Independent Study

☑ Collaboratory Learning

☐ Demonstration

☐ Field Activities (Trips)

☐ Guest Speakers

☑ Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
Private Pilot Airplane - Airman Certification Standards (FAA-S-ACS6)	Required	Federal Aviation Administration		Digital download from FAA website	Federal Aviation Administration	N/A	2019
Airman Certification Standards: Private Pilot Airplane	Required	Aviation Supplies & Academics, Inc.		Print	Federal Aviation Administration	978-161954-9036	2019
Private Pilot Oral Exam Guide	Required	Aviation Supplies & Academics, Inc.	12	Print	Hayes, Michael D.	978-164425-0150	2020

PROPOSAL

COURSE DISCIPLINE : PSYCH

COURSE NUMBER : 104H

COURSE TITLE (FULL) : Honors Social Psychology

COURSE TITLE (SHORT) : Honors Social Psychology

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID : PSY 170

CATALOG DESCRIPTION

PSYCH 104H considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group are examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition. The honors course is enhanced in one or more of the following ways: 1. Students have an increased responsibility for leading class discussions and facilitating group activities inside and outside the classroom. 2. Writing assignments are focused on critical and theoretical interpretation of research, and the application of social psychology concepts.

CATALOG NOTES

This course may not be taken for credit by students who have completed SOC 114.

Total Lecture Units:3.00

Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours:54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	PSYCH - 101 - General Psychology	Prerequisite	Added

ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	PSYCH	101	General Psychology	demonstrate familiarity with the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology;	Yes
2	PSYCH	101	General Psychology	critically analyze major theoretical perspectives of psychology (e.g. behavioral, biological, cognitive, evolutionary, humanistic, psychodynamic, and sociocultural);	Yes
3	PSYCH	101	General Psychology	describe biological bases of behavioral and mental processes, sensation, perception, learning, memory, cognition, consciousness, individual differences, personality, social psychology;	Yes
4	PSYCH	101	General Psychology	describe developmental changes across the lifespan, psychological disorders, emotion, and motivation;	Yes
5	PSYCH	101	General Psychology	discuss applied areas of psychology (e.g. clinical, counseling, forensic, community, organizational, school, and health);	Yes
6	PSYCH	101	General Psychology	recognize and the impact of diversity on psychological research, theory, and application;	Yes
7	PSYCH	101	General Psychology	apply psychological principles to personal experience as well as social and organizational settings.	Yes

EXIT STANDARDS
1. Analyze elements of a scientific approach to understanding human behavior in a psycho-social context;
2. identify biological and cultural influences on social behavior;
3. discriminate between individual differences and sociocultural influences;
4. explain the major scientific studies which form the basis for current theories of social psychology;
5. describe the ways in which principles gleaned from social psychological research apply to real world problems and issues;
6. apply models of intervention into social behavior designed to address social problems (e.g., those based on gender, ethnic, racial, or cultural differences and those based on disability);

7. compare basic concepts and theories across the areas of social psychology.

STUDENT LEARNING OUTCOMES

1   Criticize and evaluate research methods used in Social Psychology;

2   predict the interaction of both biological and social factors that explain social behavior;

3   theorize social psychological principles and apply them to everyday life.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Introduction • Domain of social psychology • Research methodology • Ethical issues	6	0	6
2	Social Psychological Perspectives • Social motivation • Social cognition • Unreasoned behavior	4	0	4
3	Social Cognition • Cognitive dissonance and self-consistency • Personal control and behavior • Categories and schemas • Casual judgments	6	0	6
4	Unreasoned Behavior • Nonthoughtful influences • Emotions • Routines in thought and action	4	0	4

	Person Perception			
5	• Schemas in person perception • Impression formation • Person memory • Attribution process	4	0	4

6	Persuasion and Attitude Change • Attitude change and behavior • Behavior and attitude change • Attitude formation • Resistance to persuasion • Reactance and threats to freedom	5	0	5
7	Social Influence • Conformity • Compliance • Obedience	5	0	5
8	Interpersonal Attraction • Liking • Personal relationships	3	0	3
9	Group Dynamics • Individuals and group members • Ingroup-outgroup relations • Leadership • Group Performance	3	0	3
10	Aggression • Frustration and aggression • Aversively generated aggression • Involuntary effects of environment • Aggressive behavior	3	0	3
11	Helpfulness and Altruism • Interpretation of the situation • Emotion arousal and empathy • Social norms and personal ideals • Personal values and self-conceptions	3	0	3
12	Sex Differences and Similarities • Interpersonal communication • Helping and Altruism • Aggression Work • Social cognitions and gender	4	0	4

	Applying Social Psychology			
13	• The environment and social behavior • Social psychology and trial by jury • Health psychology	4	0	4
				54

OUT OF CLASS ASSIGNMENTS

1 Write an 8-10 page paper based on your observation of behavior, attitudes and/or beliefs throughout the semester. The paper will include in-depth explanations of how your observations relate to social psychology.

2 homework assignments that apply Social Psychological concepts (e.g.; design a social psychological experiment following the steps to the scientific method);

3 research paper demonstrating use of sources and critical thinking skills (e.g., paper identifying causes of obedience);

4 volunteering (e.g., spend time at a non-profit organization and apply course material to your observations);

5 individual projects (e.g., informational poster describing the purpose that attitudes serve);

6 group projects (e.g., survey people about common stereotypes and present to class).

METHODS OF EVALUATION

1   class participation in individual and group exercises to practice course exit standards;

2   evaluation of presentations (e.g., in-class presentation about experiences while volunteering);

3   four to five in-class examination and one final examination requiring demonstration of course exit standards.

METHODS OF INSTRUCTION

☑ Lecture

☐ Laboratory

☐ Studio

☑ Discussion

☑ Multimedia

☐ Tutorial

☐ Independent Study

☑ Collaboratory Learning

☑ Demonstration

☑ Field Activities (Trips)

☑ Guest Speakers

☑ Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
The Social Animal	Required	Worth		Print	Aronson, Elliot	978-1464144189	2018
Social Psychology	Required	McGraw Hill	13	Print	Myers, David	9781260397116	2019

COURSE DISCIPLINE :   SOC

COURSE NUMBER :   114

COURSE TITLE (FULL) :   Social Psychology

COURSE TITLE (SHORT) :   Social Psychology

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID :

CATALOG DESCRIPTION

SOC 114 considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group are examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.

CATALOG NOTES

This course may not be taken for credit by students who have completed PSYCH 104.

Total Lecture Units:3.00

Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours:54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	PSYCH - 101 - General Psychology	Prerequisite	Added

GLENDALE COMMUNITY COLLEGE

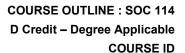**ENTRY STANDARDS**

	Subject	Number	Title	Description	Include
1	PSYCH	101	General Psychology	demonstrate familiarity with the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology;	Yes
2	PSYCH	101	General Psychology	critically analyze major theoretical perspectives of psychology (e.g. behavioral, biological, cognitive, evolutionary, humanistic, psychodynamic, and sociocultural);	Yes
3	PSYCH	101	General Psychology	describe biological bases of behavioral and mental processes, sensation, perception, learning, memory, cognition, consciousness, individual differences, personality, social psychology;	Yes
4	PSYCH	101	General Psychology	describe developmental changes across the lifespan, psychological disorders, emotion, and motivation;	Yes
5	PSYCH	101	General Psychology	discuss applied areas of psychology (e.g. clinical, counseling, forensic, community, organizational, school, and health);	Yes
6	PSYCH	101	General Psychology	recognize and the impact of diversity on psychological research, theory, and application;	Yes
7	PSYCH	101	General Psychology	apply psychological principles to personal experience as well as social and organizational settings.	Yes

EXIT STANDARDS

1. Analyze elements of a scientific approach to understanding human behavior in a psycho-social context;
2. identify biological and cultural influences on social behavior;
3. discriminate between individual differences and sociocultural influences;
4. explain the major scientific studies which form the basis for current theories of social psychology;
5. describe the ways in which principles gleaned from social psychological research apply to real world problems and issues;

6. apply models of intervention into social behavior designed to address social problems (e.g., those based on gender, ethnic, racial, or cultural differences and those based on disability);
7. compare basic concepts and theories across the areas of social psychology.

STUDENT LEARNING OUTCOMES

1 critically evaluate research methods as they apply to Social Psychology;
2 analyze the interaction of both biological and social factors that can explain and predict social behavior;
3 apply Social Psychological principles to everyday life.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Introduction • Domain of social psychology • Research methodology • Ethical issues	6	0	6
2	Social Psychological Perspectives • Social motivation • Social cognition • Unreasoned behavior	4	0	4
3	Social Cognition • Cognitive dissonance and self consistency • Personal control and behavior • Categories and schemas • Casual judgments	6	0	6
4	Unreasoned Behavior • Non-thoughtful influences • Emotions • Routines in thought and action	4	0	4

5	Person Perception • Schemas in person perception • Impression formation • Person memory • Attribution process	4	0	4
6	Persuasion and Attitude Change • Attitude change and behavior • Behavior and attitude change • Attitude formation • Resistance to persuasion • Reactance and threats to freedom	5	0	5
7	Social Influence • Conformity • Compliance • Obedience	5	0	5
8	Interpersonal Attraction • Liking • Personal relationships	3	0	3
9	Group Dynamics • Individuals and group members • Ingroup-outgroup relations • Leadership • Group Performance	3	0	3
10	Aggression • Frustration and aggression • Aversively generated aggression • Involuntary effects of environment • Aggressive behavior	3	0	3
11	Helpfulness and Altruism • Interpretation of the situation • Emotion arousal and empathy • Social norms and personal ideals • Personal values and self-conceptions	3	0	3

12	Sex Differences and Similarities • Interpersonal communication • Helping and Altruism • Aggression • Work • Social cognitions and gender	4	0	4
13	Applying social psychology • The environment and social behavior • Social psychology and trial by jury • Health psychology	4	0	4
				54

OUT OF CLASS ASSIGNMENTS

1. homework assignments that apply Social Psychological concepts (e.g.; design a social psychological experiment following the steps to the scientific method);
2. research paper demonstrating use of sources and critical thinking skills (e.g., paper identifying causes of obedience);
3. volunteering (e.g., spend time at a non-profit organization and apply course material to your observations);
4. individual projects (e.g., informational poster describing the purpose that attitudes serve);
5. group projects (e.g., survey people about common stereotypes and present to class).

METHODS OF EVALUATION

1. class participation in individual and group exercises to practice course exit standards;
2. evaluation of presentations (e.g., in-class presentation about experiences while volunteering);
3. four to five in-class examinations and one final examination requiring demonstration of course exit standards.

METHODS OF INSTRUCTION

☑ Lecture

☐ Laboratory

☐ Studio

☑ Discussion

☑ Multimedia

☐ Tutorial

☐ Independent Study

☑ Collaboratory Learning

☑ Demonstration

☑ Field Activities (Trips)

☑ Guest Speakers

☑ Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
The Social Animal	Required	Worth		Print	Aronson, Elliot	978-1464144189	2018
Social Psychology	Required	McGraw Hill	13	Print	Myers, David	9781260397116	2019

PROPOSAL

COURSE DISCIPLINE :   CAM

COURSE NUMBER :   232

COURSE TITLE (FULL) :   CNC Mill Computer Aided Manufacturing Laboratory

COURSE TITLE (SHORT) :   CNC Mill CAM Lab

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID :

CATALOG DESCRIPTION

CAM 232 provides practice using computer-aided manufacturing (CAM) software, which will allow students to complete complex computer numerical control (CNC) milling machine projects of their own choosing to further develop their CAM and CNC milling machine setup and programming skills.

CATALOG NOTES
N/A
Total Lecture Units:0.00

Total Laboratory Units: 1.00

Total Course Units: 1.00

Total Lecture Hours:0.00

Total Laboratory Hours: 54.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	CAM - 231 - Advanced Mastercam Mill	Recommended Preparation	Added

ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	CAM	231	Advanced Mastercam Mill	create complex 3D geometry and toolpaths for Mastercam mill;	Yes
2	CAM	231	Advanced Mastercam Mill	set up a Computer Numerical Control (CNC) milling machine;	Yes
3	CAM	231	Advanced Mastercam Mill	choose proper set-up tools for milling;	Yes
4	CAM	231	Advanced Mastercam Mill	demonstrate roughing and finishing operations;	Yes
5	CAM	231	Advanced Mastercam Mill	explain high speed dynamic milling;	Yes

EXIT STANDARDS

1. create a series of advanced parts and tool paths using Mastercam to machine parts on the Computer Numerical Control (CNC) mill;
2. perform advanced drawings of geometric shapes and translate them into the proper numerical format required by the equipment;
3. demonstrate the principles required to successfully complete advanced Computer Numerical Control (CNC) programming projects.
4. demonstrate knowledge of CNC systems and perform projects on the Computer Numerical Control (CNC) milling machine;

STUDENT LEARNING OUTCOMES

1   perform computer machining programs with precision and accuracy using a range of techniques

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Introduction to Course • Selection of projects • Review of Mastercam software fundamentals • Review of computer numerical control (CNC) milling machine • Review of computer numerical control (CNC) control panel	0	3	3
2	Laboratory Practice • Mastercam software • Computer numerical control (CNC) milling machine	0	51	51

OUT OF CLASS ASSIGNMENTS

1   CNC programming assignments;

 2   reading assignments.

METHODS OF EVALUATION

1   quizzes;
2   evaluation of laboratory work (e.g. programming, setup, production, inspection);
3   final project (e.g. contouring, pocket milling, drilling, and tapping)

METHODS OF INSTRUCTION

☐ Lecture

☑ Laboratory

☐ Studio

☐ Discussion

☑ Multimedia

☐ Tutorial

☐ Independent Study

☐ Collaboratory Learning

☑ Demonstration

☐ Field Activities (Trips)

☐ Guest Speakers

☐ Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
Mastercam 2020 Training Guide Mill 3D	Supplemental	CamInstructor Inc.		Text book or online	Matthew Manton	978-1988766-379	2019

COURSE DISCIPLINE :   CAM

COURSE NUMBER :   242

COURSE TITLE (FULL) :   CNC Lathe Computer Aided Manufacturing Laboratory

COURSE TITLE (SHORT) :   CNC Lathe CAM Lab

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID :

CATALOG DESCRIPTION

CAM 242 provides practice using computer-aided manufacturing (CAM) software, which will allow students to complete complex CNC lathe projects of their own choosing to further develop their CAM and CNC lathe setup and programming skills.

CATALOG NOTES
N/A
Total Lecture Units:0.00

Total Laboratory Units: 1.00

Total Course Units: 1.00

Total Lecture Hours:0.00

Total Laboratory Hours: 54.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	CAM - 241 - Advanced Mastercam Lathe	Recommended Preparation	Added

ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	CAM	241	Advanced Mastercam Lathe	create complex 3D geometry and toolpaths for Mastercam lathe;	Yes
2	CAM	241	Advanced Mastercam Lathe	set up a Computer Numerical Control (CNC) lathe machine with live tooling;	Yes
3	CAM	241	Advanced Mastercam Lathe	choose proper set-up tools for milling;	Yes
4	CAM	241	Advanced Mastercam Lathe	demonstrate roughing and finishing;	Yes
5	CAM	241	Advanced Mastercam Lathe	demonstrate drilling and boring on C-axis and Y-axis;	Yes
6	CAM	241	Advanced Mastercam Lathe	explain sub spindle machining;	Yes
7	CAM	241	Advanced Mastercam Lathe	identify automatic part handling toolpaths for second set-up.	Yes

EXIT STANDARDS

1. create a series of advanced parts and tool paths using Mastercam to machine parts on the Computer Numerical Control (CNC) Lathe;

2. perform advanced drawings of geometric shapes and translate them into the proper numerical format required by the equipment;

3. demonstrate the principles required to successfully complete advanced Computer Numerical Control (CNC) programming projects;

4. demonstrate knowledge of CNC systems and perform projects on the Computer Numerical Control (CNC) milling machine;

STUDENT LEARNING OUTCOMES

1 perform computer machining programs with precision and accuracy using a range of techniques

COURSE CONTENT WITH INSTRUCTIONAL HOURS

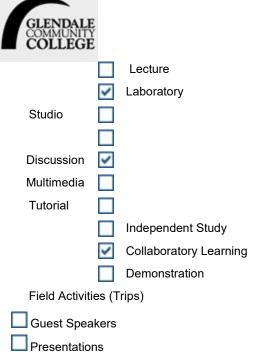|	Description	Lecture	Lab	Total Hours
1	Introduction to Course • Selection of projects • Review of Mastercam software fundamentals • Review of Computer Numerical Control (CNC) lathe • Review of Computer Numerical Control (CNC) control panel	0	3	3
2	Laboratory Practice • Mastercam software • Computer Numerical Control (CNC) lathe	0	51	51
				54

OUT OF CLASS ASSIGNMENTS

1   Computer Numerical Control (CNC) programming assignments;

 2   reading assignments.

METHODS OF EVALUATION

1   quizzes;

2   evaluation of laboratory work (e.g. programming, setup, production, inspection);

3   final project (e.g. contouring, pocket milling, drilling, and tapping)

METHODS OF INSTRUCTION

GLENDALE
COMMUNITY
COLLEGE

- [ ] Lecture
- [x] Laboratory
- [ ] Studio
- [ ]
- [x] Discussion
- [ ] Multimedia
- [ ] Tutorial
- [ ] Independent Study
- [x] Collaboratory Learning
- [ ] Demonstration

Field Activities (Trips)

- [ ] Guest Speakers
- [ ] Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
Mastercam 2021 Lathe C and Y Axis Toolpaths Tutorial	Supplemental	In-House Solutions		Textbook or online	Mastercam	978-177146-9203	2020

COURSE DISCIPLINE :   CAM

COURSE NUMBER :   261

COURSE TITLE (FULL) :   Advanced 5-Axis Machining

COURSE TITLE (SHORT) :   Adv 5-Axis Machining

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID :

CATALOG DESCRIPTION

CAM 261 prepares students for advanced machining using 5-Axis Computer Numerical Control (CNC) machines. The course includes a review of 3+2 positioning and use of Mastercam software. Students will learn surface (solid face) and wireframe-based toolpaths. Also covered are methods of tool axis control, tilting strategies, and collision control, including how multiple methods of collision control can be combined.

CATALOG NOTES
N/A
Total Lecture Units:1.00

Total Laboratory Units: 3.00

Total Course Units: 4.00

Total Lecture Hours:18.00

Total Laboratory Hours: 162.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 180.00

PRECONDITIONS FOR ENROLLMENT

And/Or	Course	Type	Req. Is Being
	CAM - 260 - Introduction to 5-Axis Machining	Recommended Preparation	Added

ENTRY STANDARDS

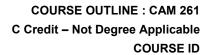|	Subject	Number	Title	Description	Include
1	CAM	260	Introduction to 5Axis Machining	explain the steps for 5-Axis toolpath creation;	Yes
2	CAM	260	Introduction to 5Axis Machining	identify the zero position on a 5-Axis machine;	Yes
3	CAM	260	Introduction to 5Axis Machining	create various 5-Axis planes;	Yes
4	CAM	260	Introduction to 5Axis Machining	perform 5-Axis drilling.	Yes

EXIT STANDARDS

1   explain the 3+2 machining process,

2   explain simultaneous 5-Axis machining,

3   demonstrate the use of Tool Center Point Control (TCPC),

4   identify the application of Dynamic Work Offset (DWO),

5   employing the 5-axis post processor

6   designing work holding and fixturing for 5-axis machining

STUDENT LEARNING OUTCOMES

1   create planes and toolpath for 5-Axis machines,

2   generate programs for 5-Axis positioning and toolpath using Mastercam,

3   verify machine G-code by applying the appropriate software

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	General Introduction • Scope of curriculum • Course requirements • Methods of preparation	1	0	1
2	5-Axis Machining and Set Up in Mastercam • Setting up Mastercam configuration • Orientation of the part • Part zero in Mastercam using DWO and TCPC	2	27	29

	• Tool zero in Mastercam			
3	3+2 Machining • Creating planes • Set-up tools • Clearance plane • Creating solids for fixturing	3	27	30
4	Simultaneous 5-Axis Toolpath • Creating curves • Setting up proper planes • Tool axis control • Cut pattern • Collision control • Defining lead/lag angle • Defining side tilt angle	3	27	30
5	5-Axis Drilling • Creating hole geometry • Creating hole axis vector line • 5-Axis drilling toolpath • Clearance plane set-up • Retracting plane	3	27	30
6	Set-up for Haas UMC-750 5-Axis Machine • Part loading • Finding part zero using Renishaw probe • Setting up tools using 3D touch-trigger tool setter • Verifying the program in Vericut • Machining the programmed part	3	27	30

7	Vericut • Introduction to Vericut interface • Loading the machine and using Vericut to control • Importing work piece, stock, and fixtures • Verifying the program • Modifying the Mastercam program	3	27	30
				180

OUT OF CLASS ASSIGNMENTS

1   create a part program from a blueprint, upload it in a mastercam file format.

2   create a part program for a solid model, upload it in a mastercam file format.

METHODS OF EVALUATION

1   quizzes,

2   final exam,

3   final project (e.g. multi-axis part with multiple set-up such as a worm gear or impeller).

METHODS OF INSTRUCTION

☑ Lecture

☑ Laboratory

☐ Studio

☐ Discussion

☑ Multimedia

☐ Tutorial

☐ Independent Study

☐ Collaboratory Learning

☑ Demonstration

☐ Field Activities (Trips)

☐ Guest Speakers

☐ Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
Secrets of 5-Axis Machining	Required	Industrial Press	1	Print	Apro, Carlo	9780831133757	2008