131A. Modern Iranian Cinema (4)
Lecture/discussion—3 hours; film viewing—3 hours. Prerequisite: upper-division standing, or consent of instructor. Iran’s cinema of the 20th century in the context of profound cultural and social changes in Iran especially since the Iranian Revolution. Productions by representative directors such as Kiarostami, Makhmalbaf, Bahram Beyzadi are included. Knowledge of Persian not required. (Same course as Cinema & Technocultural Studies 146A.) Offered in alternate years. GE credit: ArtHum, Div, Writ | AH, OL, VL, WE, WC, WE. —S. (S.)

131C. Religion and Media in Arab World (4)
Lecture—4 hours. Exploration of the role and experience of media technologies in the Arab world. Study of digital and electronic media as well as alternative media practices. Investigation of new trends in political activism and identity formation. (Same course as Religious Studies 166.) Offered in alternate years. GE credit: SocSci | OL, SS, VL, WE, WC. —Miller, Flagg

150. Women and Islamic Discourses (4)
Lecture/discussion—4 hours. Prerequisite: Women’s Studies 50 or comparable course. Introduction to the debates/discourses about women and Islam. Transformations in debates/discourses in colonial and postcolonial periods in Middle East & South Asia. Comparative study of debates/discourses on family, work, law, sexuality, religion, comportment, human rights, feminist and religious movements. (Same course as Women’s Studies 185.) Offered irregularly. GE credit: ArtHum or SocSci | AH or SS, WC, WE. 151A. Iranian Society & Culture (4)
Lecture—2 hours; discussion—1 hour; term paper. Prerequisite: some knowledge of Islamic/Middle Eastern history is very useful, consent of instructor. In-depth investigation of modern Iranian society and Eastern history is very useful; consent of instructor. Prerequisite: some knowledge of Islamic/Middle Eastern history is very useful, consent of instructor. In-depth investigation of modern Iranian society and Eastern history is very useful; consent of instructor. Offered in alternate years. GE credit: SocSci | OL, SS, VL, WE, WC. —Miller, Flagg

180. Topics in Middle East and South Asian Studies (4)
Lecture—3 hours; extensive writing. Comparative perspective on the Middle East and South Asia. Topics are selected on the basis of their relevance to students specializing in region-specific Middle East and South Asia Studies. May be repeated three times for credit. GE credit: ArtHum or SocSci | AH or SS, WC, WE. —W. (S.)

181A. Topics in Regional ME/SA Studies (4)
Lecture—3 hours; term paper. Iranian & Persian topics for students specializing in region-specific Middle East and South Asia Studies. May be repeated three times for credit. GE credit: ArtHum or SocSci | AH or SS, WC, WE. —W. (S.)

181B. Topics in Regional ME/SA Studies (4)
Lecture—3 hours; term paper. Indian/South Asia topics for students specializing in region-specific Middle East and South Asia Studies. May be repeated three times for credit. GE credit: ArtHum or SocSci | AH or SS, WC, WE. —W. (S.)

181C. Topics in Regional ME/SA Studies: Arab Studies (4)
Lecture—3 hours; term paper. Arab Studies topics. May be repeated three times for credit when different topics and themes are studied. GE credit: ArtHum or SocSci, Div, Writ | AH or SS, WC, WE. —W. (S.)

182A. Undergraduate Proseminar in Middle East/South Asia (4)
Seminar—3 hours; term paper. Prerequisite: course 100 recommended. Class size limited to 15 students. Seminar in Iran & Persian topics specializing in region-specific Middle East and South Asia studies. May be repeated three times for credit. —W. (W.)

182B. Undergraduate Proseminar in Middle East/South Asia (4)
Seminar—3 hours; term paper. Prerequisite: course 100 recommended. Class size limited to 15 students. Seminar in India/South Asia topics specializing in region-specific Middle East and South Asia studies. May be repeated three times for credit when different topics and themes are studied. —W. (W.)

182C. Undergraduate Proseminar in Middle East/South Asia: Arab Studies (4)
Seminar—3 hours; term paper. Prerequisite: course 100 recommended. Class size limited to 15 students. Seminar in Arab and Middle Eastern topics. May be repeated three times for credit. GE credit: WE. —S. (S.)

192. Internship (1-12)
Internship—3-36 hours. Prerequisite: course 100. Supervised internship involving field work and off campus in the area of Middle East and South Asia Studies. May be repeated for up to 12 units of credit. (P/NP grading only.)—W, SS, SU; (F, W, S, S.)

194H. Special Study for Honors Students (1-5)
Prerequisite: open only to majors of senior standing who qualify for honors program; consent of instructor. Independent study of a problem in Middle East/South Asian studies. May be repeated for up to 12 units of credit. (P/NP grading only.)—W, SS, SU; (F, W, S, S.)

Military Science
[College of Letters and Science]

Reserve Officers’ Training Corps (ROTC), Army
Brian Krienerie, U. Col., Chairperson of the Department
Department Office. 125 Hickey Gymnasium 530-752-5211
Faculty
U. Col. Brian Krienerie, Professor
Captain Nicholas Olson, Assistant Professor
Captain Tonya Sottilo, Assistant Professor
Captain Gary Suen, Assistant Professor

Program of Study
The Military Science Department offers hands-on training in management and leadership. The program stresses the following Army Values: loyalty, duty, respect, selfless-service, honor, integrity, and personal courage. The program also stresses leadership dimensions as taught in the classroom. Also stressed are current events, national and international politics, military affairs, ethics training, and human relations with emphasis on eliminating racial and gender discrimination. Management and leadership are taught as a model. Military skills (such as drill and ceremony, map reading, and squad tactics) are taught to the extent necessary to create an environment where students can enter leadership positions and apply theories taught in the classroom. Students learn by doing. The program assists students in all academic fields to prepare for positions of leadership in military or civilian careers.

The department offers two program tracks: (1) a purely academic track; (2) a pre-commissioning track for those desiring a commission in the U.S. Army. The academic track entails no obligation to the military and is open to all students. Students pursuing the academic track do not wear a uniform or participate in extra-curricular activities designed as part of the pre-commissioning process. Activities for all students include the Ranger Club (a club designed for adventure activities such as rappelling, white-water rafting, caving, and patrolling) and intramural sports teams.

Students who desire a commission in the U.S. Army participate in both the academic portion of the program and in the leadership laboratories and extra-curricular activities designed as part of the pre-commissioning track. They wear uniforms to leadership laboratories and selected classes and become ROTC cadets. Students may be cadets in the lower division courses without incurring a military obligation. Students participating in the upper division pre-commissioning program incur a military obligation. See below for details. Extra-curricular activities for cadets include an inter-collegiate sports team (Ranger Challenge), the university color guard, a military honor society, and opportunities to participate in field training exercises.

Department Programs
Students are enrolled in Military Science under one of two programs.

Four-Year Program
There is no military obligation associated with attendance in lower division courses. Students are enrolled in the basic course for one year, the first year for the first two years on a voluntary basis. Admission to the advanced course (upper division) is by application from second-year lower division students who meet the academic, physical, and medical requirements. Qualified veterans can enter the advanced course immediately because of their military service experience, upon approval by the Department Chairperson.

Juniors receive $450 subsistence per month, and Seniors $500 per month, after executing a contract agreeing to complete the courses and accept a commission in the U.S. Army upon graduation. During the course, all Military Science textbooks, uniforms, and equipment are provided without cost. Students are given leadership development experience at the Leader Development and Assessment Course (LDAC) between their third and fourth years of college. Emphasis is on individual participation, leadership development and the capability to function effectively in positions of significant responsibility.

Two-Year Program
The two-year program is for students, including graduate students, who have not attended lower division Military Science classes. In the first year, courses an applicant attends a six-week summer program, Leaders Training Course (LTC) which is voluntary and carries no military obligation. Applicants are paid for transportation, uniforms, and meals. Housing is provided at no cost. All scholarship offers are accepted at any time prior to the student’s junior year; graduate students are also accepted. All other provisions explained above for the upper division course apply to the two-year program.

Scholarship Program
The U.S. Army offers four-, three-, and two-year Active Duty scholarships, two-year Reserve Forces Duty, and two-year Dedicated National Guard scholarships to students planning to attend or attending UC Davis. The U.S. Army ROTC scholarship package pays tuition. Also included in all scholarships is a stipend of $1,200 per year for textbooks. The Army Reserve Officers’ Training Corps four-year Active Duty merit scholarships are awarded to qualified high school seniors in a national competition each year. A deadline of 20 January is set for submission of the four-year scholarship application. As high school seniors, students compete for the scholarship by submitting their complete application at http://www.goarmy.com/rotc/operation Kontakt us at UC Davis, Department of Military Science at 530-754-6707.

The three-year Active Duty and two-year Reserve Forces Duty scholarships are awarded to college students who are already attending UC Davis or transferring from a junior college to UC Davis. Students

Pre-Fall 2011 General Education (GE): ArtHum—Arts and Humanities; SciEng—Science and Engineering; SocSci—Social Sciences; Div—Domestic Diversity; Writ—Writing Experience Quarter Offered: F-W, W-Winter, S-Spring, SU-Summer; 2011-2012 offering in parentheses
apply for and are awarded these Army scholarships through the Military Science Department.

### Leadership Laboratory
During the course of the school year, two hours per week are spent conducting practical exercises. Classes emphasize adventure activities including offense, defense and patrolling techniques, weapons familiarization, rappelling, rope bridging, obstacle courses, leadership reaction course, and land navigation. All cadets are required to attend leadership laboratories for practical leadership experience and to prepare for attendance at LDAC, held at Fort Lewis, Washington.

### Academic Credit
**College of Agricultural and Environmental Sciences.** The Bachelor of Science degree in agriculture requires the completion of 180 units. Military Science courses are counted in the unit allowance for electives.

**College of Biological Sciences.** The Bachelor of Science degree requires the completion of 180 units. Military Science courses are counted in the allowance for electives.

**College of Engineering.** Military Science units are acceptable toward the requirements for the Bachelor of Science degree to the extent of the unrestricted elective units available in the curriculum being followed.

**College of Letters and Science.** The Bachelor of Arts degree requires the completion of 180 units. Military Science courses are counted in the allowance for electives.

**School of Veterinary Medicine.** The number of Military Science units acceptable toward the Bachelor of Science degree in Veterinary Medicine is on an individual program basis approved by the Dean of the School. Graduates with the D.V.M. degree may apply for direct commission in the United States Army Veterinary Corps.

### Aerospace Studies (Air Force)
The Air Force Reserve Officer’s Training Corps (AFROTC) is an educational program providing training in leadership, management, communications and military proficiency on college and university campuses. It also provides an opportunity to obtain a commission as a second lieutenant in the Air Force and enter the active duty forces after you complete a bachelor’s or a graduate degree. The skills you acquire will become valuable assets for any subsequent career you choose.

The program is normally four years long, but a flexible design allows students to complete the curriculum in as little as two years. Undergraduate scholarships are available, but not necessary for participation. Until you accept a scholarship or enter your junior year of the program, you have no obligation to join the Air Force. There are no costs for AFROTC uniforms, books, or classes.

UC Davis students have the option of taking the Air Force program on the UC Berkeley or CSU Sacramento campus.

#### Qualifications
Freshmen/Sophomore applicants must:

- Be full-time college students in good academic standing
- Have good moral character
- Be in strong physical condition
- Be at least 14 years old

Additionally, Juniors/Seniors/Scholarship recipients must:

- Be United States citizens or in the process of applying for citizenship
- Be 18 years old (or 17 years old with consent of parent or guardian)
- Pass the Air Force Officer Qualifying Test
- Pass a medical examination

#### Scholarships
Opportunities for four-year and three-year undergraduate scholarships exist year round. Scholarships cover the full cost of tuition, books and required fees at the University of California and are available for eligible high school seniors. It also includes $3000 monthly stipend during the school year. If you are a junior or senior in high school and plan on attending a college or university in Northern California, you can write, call or visit the local AFROTC for further assistance.

Applications are also available from local Air Force recruiters or your high school guidance counselors.

All scholarships are merit-based and considered a variety of factors: cumulative GPA, class standing, SAT/ACT scores, academic awards/achishments, leadership ability, athletic involvement, extracurricular activities, community service and letters of recommendation.

#### Challenging Careers
All commissioned officers enter the Air Force as second lieutenants for a 4-year active duty service commitment. Pilots and navigators serve longer commitments, based on training requirements. Once on active duty, you will be given instant responsibility in one of 32 primary career fields. Opportunities to fly are better than ever. Whether you are piloting the F-22 fighter, supervising 150 aircraft maintainers on the flightline, or caring for sick personnel in the emergency room, you will be rewarded knowing that you are making a difference.

Air Force ROTC is offered through the Aerospace Studies departments at California State University Sacramento and U.C. Berkeley. Scholarships (including tuition, book allowance, and stipend) are available for qualified students. Students may enroll and attend one course per semester at the U.C. Berkeley or CSU Sacramento campus at no cost. Topics covered in AFROTC courses include Basic Military Knowledge (1-credit), Military History (1-credit), Leadership Training (2-credits), and U.S. National Security Affairs and Preparation for Active Duty (3-credits). Additional components of the AFROTC program include 2 hours per week of fitness activities, 2 hours per week of Leadership Lab, and a 4-week Summer Field Training between the Sophomore and Junior years. Upon completion of the program and granting of 4-year degree, students will commission as Second Lieutenants in the United States Air Force. To be eligible for AFROTC, applicants should be a full time student and meet additional fitness, GPA, testing, and other requirements. Interested students, please contact a Recruiting Officer for more information:

For CSU Sacramento: http://www.csus.edu/afrotc 916-278-7315; det088@maxwell.af.mil

For U.C. Berkeley: https://airforcerotc.berkeley.edu 510) 642-3572; airforce@berkeley.edu

**Naval ROTC**

#### Department of Naval Science

152 Hearst Gymnasium, UC Berkeley

**Berkeley, CA 94270-3640**

(510) 642-3572; http://navyrotc.berkeley.edu

UC Davis students may participate in the Navy and Marine Corps ROTC program at UC Berkeley. The program is 4 years long and includes courses and weekly professional development laboratories (drill) at UC Berkeley. Students normally compete for national scholarships as high school seniors, although interested students may enroll as freshmen or sophomores and compete for scholarships based on successful participation in the program. A student who satisfactorily completes an ROTC program and is awarded a degree from UC Davis receives an active duty commission as a Second Lieutenant in the U.S. Marine Corps or an Ensign in the U.S. Navy.

Navy option students take the following courses:

Freshman year:

- **NS 1 Introduction to Naval Science**
- **NS 2 Sea Power and Maritime Affairs**

Sophomore year:

- **NS 9 Leadership and Management**
- **NS 10 Naval Ship Systems I**

Junior year:

- **NS 12A Navigation and Naval Operations I**
- **NS 12B Navigation and Naval Operations II**

Senior year:

- **NS 401 Naval Ship Systems II**
- **NS 412 Leadership and Ethics**

In lieu of NS401, NS10, NS12A and NS12B, Marine Corps students participate in Marine Seminars and complete MA154, History of Littoral Warfare and MA20, Evolution of Warfare (or a designated equivalent).

Scholarship students are required to complete a number of other courses at Davis, including one year each of calculus, physics, and English, and one quarter each of computer science, and military history or national security studies.

Interested students should contact the Department of Naval Science at UC Berkeley at the address above to obtain information and apply.

### Courses in Military Science (MSC)

#### Lower Division

**11. U.S. Army Leadership and Personal Development (1)**

Lecture—1 hour. Prerequisite: lower division standing. United States Army, its organization, customs, courtesies, and rank structure. Course surveys professional development skills for effective leadership such as critical thinking, time management, and health and fitness. Familiarization with the Army ROTC program.—F. [F]

**12. Introduction to Tactical Military Leadership (1)**

Lecture—1 hour. Prerequisite: lower division standing. Leadership fundamentals to include set- ting direction, problem-solving, presenting briefs, and using effective writing skills. Basic military tactics, orienteering and land navigation. Dimensions of leadership values, attributes, skills, and actions.—W. [W]

**13. Introduction to Basic Military Operations (1)**

Lecture—1 hour. Prerequisite: lower division standing. Basic military tactical theories and their application at the individual and squad level. Military tactical operations and basic military aid.—S. [S]

**14A. Introduction to Military Leadership Skills (0.5)**

Laboratory—2 hours. Prerequisite: lower division standing and consent of instructor. Personal and organizational leadership skills introduced in leader- ship laboratory. Extensive supervised leadership experiences conducted in a military environment. Basic military skills necessary to function in a leadership role. (P/NP grading only.)—F. [F]
Molecular Biosciences

14B. Introduction to Military Leadership Skills (0.5)
Laboratory—2 hours. Prerequisite: lower division standing, consent of instructor. Development of leadership and military skills introduced in course 14A. Emphasis on the role of the individual soldier as a functional element of the Army, the squad. Supervisory controls reduced as students gain capabilities. (P/NP grading only)—W. (W.)

14C. Introduction to Military Leadership Skills (0.5)
Laboratory—2 hours. Prerequisite: lower division standing, consent of instructor. Development of skills required for promotion to junior noncommissioned officer level. Concepts developed from company through individual levels. Interrelationship of squad and platoon organization. (P/NP grading only)—S. (S.)

21. Military History, Study of Battles (2)
Lecture—2 hours. Prerequisite: course 22B or consent of instructor. Application of the Nine Principles of War to key battles in American and World history. Tactics on a strategic and operational level. Evaluation of leadership and decision-making processes of key leaders. (S.)

22A. Innovative Team Leadership (2)
Lecture—2 hours. Prerequisite: lower division standing or consent of instructor. Leadership values, attributes, and theories. Use of basic military skills such as land navigation and squad operations to enhance understanding of the Army. Types of military briefings. Practice in interpersonal skills. Presentation of a briefing. —F. (F.)

22B. Principles of Tactical Leadership (2)
Lecture—2 hours. Prerequisite: course 22A or consent of instructor. Leadership of tactical teams in complex operating environment. Self-assessment of leadership style. Basic military skills: terrain analysis, patrolling and operations orders. Dynamics of adaptive leadership in the context of military operations. —W. (W.)

24A. Individual Military Leadership Skills (0.5)
Laboratory—2 hours. Prerequisites: courses 14A, B and C, enrolled in course 22A or consent of instructor. Development and practice of personal military leadership skills in extensive supervised leadership labs. Cadets perform basic military skills, improve on troop leading procedures and lead subordinates in tactical situations. Begin with drill and ceremony, land navigation and individual movement techniques. (P/NP grading only)—F. (F.)

24B. Individual Military Leadership Skills (0.5)
Laboratory—2 hours. Prerequisites: courses 14A, B and C, enrolled in course 22B or consent of instructor. Development and practice of personal military leadership skills in extensive supervised leadership labs. Performance of basic military skills, improvement on troop-leading procedures, leadership of subordinates in tactical situations. (P/NP grading only)—W. (W.)

24C. Individual Military Leadership Skills (0.5)
Laboratory—2 hours. Prerequisites: courses 14A, B and C, enrolled in course 21 or consent of instructor. Develop and practice personal military leadership skills in extensive supervised leadership labs. Begin with drill and ceremony, land navigation and individual movement techniques. (P/NP grading only)—S. (S.)

Upper Division

131. Military Leadership and Management (2)
Lecture—2 hours. Prerequisite: upper division standing and consent of instructor. Leadership and management in organizational context. Team dynamics, leadership styles, professional ethics, development of a leadership framework. Management skills for planning, decision making, and organizing developed through definition of problems, development of courses of action, implementation of solutions. —F. (F.)

132A. Advanced Military Operations (2)
Lecture—2 hours. Prerequisite: upper division standing, course 131 or consent of instructor. Military small unit tactical operations serve as the basis for leadership development. Principles of war, contemporary operating environment, Geneva Law of Land Warfare, military offensive and defensive operations. Emphasis on development of critical thinking, problem solving, and communication skills. —W. (W.)

132B. Applied Leadership (2)
Lecture—2 hours. Prerequisite: upper division standing, course 132A or consent of instructor. Military small unit tactical operations serve as the basis for leadership development. Application of leadership styles and skills to complete problem-solving exercises and the development of an adaptable framework applicable to a variety of shifting environments and situations. —S. (S.)

134A. Adaptive Tactical Leadership (0.5)
Laboratory—2 hours. Prerequisite: upper division standing, course 131 or consent of instructor. Small unit tactical operations serve as the basis for enhancement of leadership performance through tactical application. Assessment of leadership attributes, skills, and actions through participation in a variety of leadership roles in problem-solving exercises. (P/NP grading only)—F. (F.)

134B. Adaptive Tactical Leadership (0.5)
Laboratory—2 hours. Prerequisite: upper division standing, course 132A or consent of instructor. Small unit tactical operations serve as the basis for enhancement of leadership performance through tactical application. Assessment of leadership attributes, skills, and actions through participation in a variety of leadership roles in problem-solving exercises. (P/NP grading only)—W. (W.)

134C. Adaptive Tactical Leadership (0.5)
Laboratory—2 hours. Prerequisite: upper division standing, course 132B or consent of instructor. Small unit tactical operations are taught, serve as basis for students exploration, development. Serve in variety of leadership roles in which leadership attributes, skills, actions are closely assessed and developed while they are faced with series of problem solving exercises. (P/NP grading only)—S. (S.)

141. Ethical Leadership (2)
Lecture—2 hours. Prerequisite: upper division standing, consent of instructor. Direct influence of leaders on individual behavior and group processes. The complexities of balancing moral, legal, and ethical obligations while applying fundamental business principles in determining the best possible outcome from competing values. —F. (F.)

142. Military Law (2)
Lecture—2 hours. Prerequisite: division standing and course 141, or consent of instructor. The United States Constitution and the Military Justice System. Basic law of war, with emphasis on issues that might arise on the battlefield or during a national emergency. —W. (W.)

143. U.S. Army Management Systems (2)
Lecture—2 hours. Prerequisite: upper division standing and consent of instructor. Leader and management, focusing on four management systems: planning, organizing, leading and controlling. Practical methodologies for assessing management decisions while balancing competing ethical, economic, political, institutional and future growth trade-offs. —S. (S.)

144A. Military Training Leadership Skills (0.5)
Laboratory—2 hours. Prerequisite: upper division standing, course 141 or consent of instructor. Enhancement of student leadership performance through practical application. Small unit military tactical operations serve as the basis for student exploration and development. (P/NP grading only)—F. (F.)

144B. Military Training Leadership Skills (0.5)
Laboratory—2 hours. Prerequisite: upper division standing, course 143 or consent of instructor. Enhancement of student leadership performance through practical application. Small unit military tactical operations serve as the basis for student exploration and development. (P/NP grading only)—W. (W.)

191. Special Studies in Military Science (2)
Independent study—6 hours. Prerequisite: consent of department chair, and courses 131, 132A, 132B, 141, 142, 143. Intensive examination of one or more special problems in military science. Possible areas of study include leadership dimensions, principles of war, air/land battle imperatives, military strategy, the operational art and professional ethics, May be repeated two times for credit when topics differ. (P/NP grading only). Offered irregularly.

Molecular and Cellular Biology

See Veterinary Medicine, School of, on page 351.

Molecular and Cellular Biology

[College of Biological Sciences]
Jodi Nunnari, Ph.D., Professor, Chairperson of the Department
Department Office. 149 Briggs Hall
530-752-3611; http://www.mcb.ucdavis.edu

Faculty

Primary Members
Jawad Al-Bassam, Ph.D., Assistant Professor
John Albeck, Ph.D., Assistant Professor
Enoch Baldwin, Ph.D., Associate Professor
Sean M. Burgess, Ph.D., Professor
Kenneth C. Burris, Ph.D., Professor
Judy Callis, Ph.D., Professor and Vice Chair
Francis J. McNally, Ph.D., Professor
Richard James McKenney Ph.D., Professor
Walter Leal, Ph.D., Professor
J. Clark Lagarias, Ph.D., Professor
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Christopher S. Fraser, Ph.D., Associate Professor
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Kassandra Ori McKinney, Ph.D., Professor
Ted Powers, Ph.D., Professor
Terry Todd Quan, Ph.D., Assistant Professor
Raymond L. Rodriguez, Ph.D., Professor
Leslie S. Rose, Ph.D., Professor
Jonathan M. Scholey, Ph.D., Professor
Daniel A. Starr, Ph.D., Professor

Fall 2011 and on Revised General Education (GE): AH—Arts and Humanities; SC—Science and Engineering; SS—Social Sciences; OL—Other Skills; SL—Quantitative; VL—Visual; WC—World Cultures; WE—Writing Experience
Pre-Fall 2011 General Education (GE): ArHum—Arts and Humanities; ScEng—Science and Engineering; SoSoc—Social Sciences; Div—Domestic Diversity; Wrt—Writing Experience