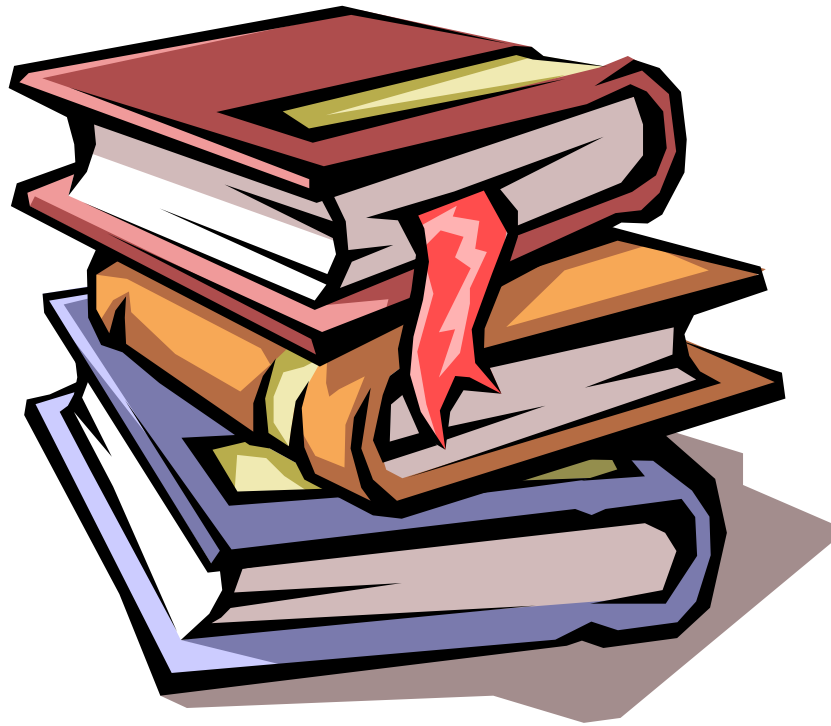


Curriculum Handbook Supplement



Spring 2007

OFFICE OF THE REGISTRAR
CURRICULUM HANDBOOK SUPPLEMENT
Spring 2007

This is the spring supplement to the 2006-2007 Curriculum Handbook, specifically focused on registration information for the Fall 2007 semester. The 2006-2007 Curriculum Handbook is located on DFRs intraweb site (<http://orion/Registrar/>) or can be linked to from the Cadet Portal website (<http://portal/cadet>). This supplement is a useful tool for passing on the most current course information, policy changes, and items of interest; it also addresses issues for the summer of 2007.

The Curriculum Handbook Supplement is edited by the Academic Affairs Division (DFRC), Office of the Registrar. We appreciate each academic department's timely inputs.

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SECTION I

FROM THE DESK OF THE REGISTRAR

A. REGISTRATION – Fall 07 registration changes in Q2i will be closed after 22 Mar 07. Q2i will continue to accept registration changes for all other future semesters (spring 08 and beyond). Any changes after 22 Mar for the fall 07 semester will be completed IAW paragraph 2-5 of the Curriculum Handbook.

| COORDINATION REQUIREMENTS | | |
|----------------------------------|---|---|
| ACTION | Coordination Required | √ |
| Declaring a major | cadet, AAOCA, AIC | |
| Changing a major | cadet, old advisor, old AIC, new AIC, new advisor | |
| Changing a track (within major) | cadet, advisor, AIC | |
| Changes affecting Soaring | 306 OSS/OSTS (3-9320) | |
| Changes affecting Parachuting | 306 OSS/OSTP (3-9321) | |
| Dropping Academy Flt Screening | DFRC (3-2452) | |
| Courses req. dept permission | Appropriate departments | |

| COURSE LOAD REQUIREMENTS | | | |
|---------------------------------|--|---|---|
| Class | Minimum | Maximum | √ |
| 4° | - 5 academic courses, 13.5 sem hrs. if enrolled in Econ 200 & Mgt 200 | - normal course load for the spring is 6 courses - cannot take more than six courses - may download to five courses | |
| 3°- 1° | - 5 academic courses, 13.5 sem hrs. if enrolled in Econ 200 & Mgt 200 | - 22 sem hrs - To exceed 22 sem hrs requires at least a cum GPA <u>or</u> sem GPA of 3.25 | |
| | | | |

OTHER PAPERWORK

| Action | Please... | √ |
|--------------------------------|--|---|
| Academic Waiver (Form 69) | - Signature of Dept Head or Division Chair for major affected - Attach APS/Grad check | |
| Get-Well Plan (Form 68) | - Vital, living document for planning and tracking a cadet's academic improvement (advisor, AOC) | |
| Independent Study (Form 0-498) | - Goes to DFRR, Ms. Kim Sparks NLT Lesson 5 | |
| Audit Letter Format | - Get from and return to DFRR | |

REGISTRATION DEADLINE FOR FALL 2007: 22 Mar 07. *Points to Remember:* History 101, MSS 100, Math 142, Physics 110, and Comp Sci 110 must be completed NLT 3rd semester. All other 100-level courses must be completed NLT 4th semester. Physics 110 and 215 must be completed in concurrent semesters. Math 243 and most core substitutions are for technical majors.

DFR WEB SITE – Please visit our web site (<http://orion/Registrar/>) located on the intraweb. At this site you will find current information related to AAOCA/AIC lists, curriculum publications, important dates, the service academy exchange program, Q2i, Student Academic Services offerings, scheduling and records services, and links to frequently used forms and USAFA instructions. DFR is dedicated to updating and revising our web site information on a constant basis – if you ever find a problem or inconsistency, please let us know.

AIRMANSHIP PROGRAMS

GENERAL INFORMATION – Jump (Armshp 490) and Soaring (Armshp 251) are 10-lesson courses overscheduled with Phy Ed courses. Jump is two contact hours (two academic periods). Soaring is three contact hours (three academic periods). Both courses are only offered in the morning. Because intercollegiate (IC) athletes' Phy Ed courses are in the afternoons, it is difficult/impossible to schedule ICs for either airmanship course during the academic year.

SOARING PROGRAM – DFR works to maximize soaring enrollment for third-class cadets. Following the release of summer schedules, DFR will register Class of 2010 cadets for soaring during their 3^o academic year. Soaring (Armshp 251), therefore, is unavailable in Q2i. Thirdclass cadets have priority for the limited number of soaring seats available.
Block Offered / Seats: fall - A / 45, B / 40, C / 35; spring - F / 41, G / 46, H / 51

JUMP PROGRAM – Jump (Armshp 490) is offered during A and C 'go's in the fall, E and F 'go's in the spring. During the scheduling process for the next semester, DFR prioritizes jump enrollment by class year (1^os have priority) and OPA (highest order of merit has priority). If

more cadets are enrolled than available seats, we move the remainder out to a future offering. If fewer cadets are enrolled than available seats, we move cadets up from future semesters. Register interested cadets, via Q2i, into either fall (A or C 'go') or spring (E or F 'go').
Block Offered / Seats: fall - A / 72, C / 72; spring - E / 72, F / 48

Academy Flight Screening (AFS)

[from the 2006-2007 Curriculum Handbook]

Academy Flight Screening (AFS). AFS (Armnsnp 425) is USAFA's flight screening program. AFS is taken by Pilot Qualified (PQ), Combat Systems Officer Qualified (CSOQ), or PQ/CSOQ – Waiverable cadets in the spring of their 2nd class year, summer before the firstie year, or during the firstie fall. AFS is a prerequisite to attend Specialized Undergraduate Pilot Training (SUPT) or Combat Systems Officer (CSO) Training. Cadets should not take AFS if they are not/will not be PQ, CSOQ, or do not plan on attending SUPT or CSO Training following graduation. If a cadet's PQ or CSOQ waiver has already been denied, he/she is ineligible to take AFS. In addition, if cadets are pursuing a PQ or CSOQ waiver, they should not take AFS if there is minimal chance of their waiver being approved. Advisors can call Cadet Graduation Physicals (x3-0533) if they have further questions on medical status. Cadets with a Private Pilot's License do need to complete AFS prior to attending SUPT or CSO Training.

AFS During the School Year. The earliest cadets can enroll in Armnsnp 425 is the spring of the second-class year. The latest cadets should enroll in Armnsnp 425 is the fall of the first-class year. The maximum course load, including Armnsnp 425, is 6 courses. The minimum course load during AFS, including Armnsnp 425, is 4 courses. Cadets should work with AH Scheduling to remove Phy Ed courses from their AFS semester and reschedule those Phy Ed course to other semesters. Intramural participation is optional for cadets while enrolled in AFS. Cadets need to understand the significant time demands of this course. Consideration should be given to not scheduling cadet leadership positions with significant time demands concurrent with this course (i.e., wing- and group-level positions, Sq/CC, First Sergeant, etc.).

AFS in Summer 2007. Enrollment in summer AFS is limited. Cadets enrolled in summer AFS are scheduled for two periods of Armnsnp 425 (Armnsnp 425AF or Armnsnp 425DI) and one period of leave.

AFS in Fall 2007. AFS in fall 2007 will proceed as normal and is open for registration. AFS in future semesters beyond fall 2007 is a question mark? As details are made clear in the coming months, we will advertise what we know when we know it.

PHY ED REGISTRATION - Handle all Phy Ed registration (dropping classes, adding classes, changing blocks, etc.) through Phy Ed Scheduling (3-3525). DFR will not make any changes to Phy Ed courses, this semester or future semesters.

REGISTRATION CHANGES (PRESENT SEMESTER) - Registration changes outside of the normal drop/add periods must be submitted IAW the Curriculum Handbook guidelines. In general, those guidelines are:

Drops: drop current semester classes IAW the course drop timeline (Figure 2-4 in the 2006-2007 Curriculum Handbook)

Adds: no classes added after Lesson 3

Other: APSs will be accepted by DFR for fall 07 registration changes after the registration deadline (22 Mar) if fully coordinated thru all affected departments.

B. USAFA FORM 68 -- "GET WELL" PLAN

All cadets on academic probation must complete a USAFA Form 68. Cadets placed on ac pro for spring prog grades must complete a USAFA Form 68 and have it to their advisor and AOC NLT 6 Apr 07. It is the cadet's responsibility to complete the Form 68.

NOTE: The Spring Prog Academic Review Committees will convene NLT 16 Mar 07. ARC letters will be distributed NLT 19 Mar 07. There are no disenroll recommendations for prog grades. Rather, ARC recommendations/directives at prog are prescriptive.

C. AAOCA MEETING

The next Class of 2010 AAOCA meeting is 9 May 07 (time & location TBD).

D. STUDENT ACADEMIC SERVICES Student Academic Services is newly located on the first floor, far north end of Fairchild Hall. Due to construction, the only current entrance is through the doors located in the northwest stairwell vestibule (Commandant's Entrance - near the revolving doors). Fourthclass cadets are authorized to use the northwest stairwell, between the third and first floor, to access the Center. A card (prox) reader has been ordered for the north, exterior, doors, but it is yet to be installed. Current course offerings are as followed:

STDY SKLS 101/102: STRATEGIES FOR ACADEMIC SUCCESS. Classes focus on time management, prioritization, test-prep, test-taking strategies, reading enhancement, note-taking and more. Volunteers should call 3-8376 or stop by Student Academic Services to discuss an individualized program or enrollment in a Study Skills course.

READ SKLS 103/103X (4's): READING ENHANCEMENT FOR FIRST-YEAR CADETS. This course is a two-semester hour, half-semester reading skills course, tailored for fourth-class cadets, focused on improving reading rate, recall, and comprehension. There are still seats available in Reading Skills 103X this semester. Please contact Dr. Frank Gahren at 3-6839 for additional information.

READ SKLS 201/201X: READING ENHANCEMENT. This is a two-semester hour, half-semester reading skills course tailored for upperclass cadets. When registering for this course, please specify preference for taking course during first-half (e.g., Read Skls 201) or second-half of semester (e.g., Read Skls 201X). If you received credit for Read Skls 103, you may NOT enroll in Read Skls 201/201X for credit.

WRITING CENTER: Library Media Center, Suite 4A59

Hours: 0850 – 1523 Mon – Fri; 1800 – 2200 Sun. – Thurs.

Tel. Days: 333-0790 or 333-0788 **Evenings:** 333-0470

Mission: *To support and promote writing and the teaching of writing in all disciplines*

Vision: *Developing better writers, one tutorial at a time*

Philosophy: *Writing Is POWER!—Plan, Organize, Write, Edit, Review/Revise*

Staffed by a dedicated team of volunteer faculty tutors, the Writing Center is an open resource center for cadets and faculty that offers assistance at any stage of the writing process.

The primary goal of the Writing Center is to provide one-on-one tutorials—guided “conversations on writing” designed to help clients see themselves as writers, identify writing strengths and weaknesses, and improve writing skills.

The Center offers assistance with basic writing skills (prewriting, generating a thesis statement, developing a draft, etc.) and special writing projects (graduate scholarship essays, letters, resumes, etc.). It also houses an extensive Writer’s Resource Library featuring books and periodicals; audio and video tapes; writing and editing software; handouts and worksheets; and reference works including dictionaries, thesauri, handbooks, and style guides.

Other services include group tutorials, writing workshops, and classroom visits to introduce cadets and faculty to services and resources and to provide more detailed information concerning the tutoring process.

Cadets planning to visit the Writing Center should schedule their appointments at least 24 hours before “paper due” dates. Walk-ins are welcome, but assistance is based on tutor availability. To help ensure a focused, productive tutorial, cadets should come prepared to answer three questions about their project:

- When is this assignment due?
- What are the guidelines for this assignment? (purpose, audience, length, research required, etc.)
- What are your concerns about this assignment?

They should also be willing to ask questions and to schedule follow-up sessions, as necessary.

To schedule a tutorial, cadets can stop by the Writing Center or call for available appointments. They may also visit the Center during normal operating hours to ask questions or check out materials.

For more information about the Writing Center, contact Prof. Durthy A. Washington, Director, or visit our Web site at <http://Orion/Writing>

E. MISCELLANEOUS

SCHEDULING COMMITTEE ACTIONS (SCAs): SCAs are a CAMIS program. Each department has a POC for SCA actions; this individual should have been trained by the CAMIS programmer and received a manual. Submittals for excusals are entered in CAMIS. Mrs. Britton (DFR), DF’s representative to the USAFA Scheduling Committee, accesses all DF

requests and forwards to the voting members. The CAMIS web site to check SCA status is https://camis.usafa.af.mil/pls/admin/ces_excusal_viewer.frames.

ORDER OF PRECEDENCE: An updated USAFA Instruction 36-180 (Allocation of Cadet Time) is in coordination. Though not yet final and posted, the following order of precedence is in effect (prioritization of what cadets should be doing when there's a conflict)

1. Appointment with USAFA/CC, 34 TRW/CC, DF, or AH.
 2. Courts-martial (or related appointment)
 3. Honor Board jury duty
 4. Appt with an MRC, ARC, PERC, or STRC
 5. Appt with the Vice Commandant, Vice Dean, Vice AD, Dept Head, 34 TRG/CC, Dir 34 TRW/CWC, and Chief, Honor Division
 6. Appt with Cadet Military Counsel
 7. Honor Rep meeting, in exceptional cases
 8. Physiological Training
 9. Scheduled IC competition
 10. Medical/dental appts
- ...and so on

FINAL EXAM SCHEDULES: Cadet final exam schedules and final exam offering times will be released the week of 5 Mar. The deadline for cadets to make changes to their final exam schedules is tentatively 20 Apr 07. Two specific rules apply to all cadets when submitting changes: 1) a cadet cannot take an evening final followed by a morning final the next day (e.g., finals 3&4, 6&7, 9&10, and 12&13); and 2) a cadet cannot take three finals in one day (e.g., finals 1&2&3, 4&5&6, 7&8&9, 10&11&12).

PREPARATIONS FOR THE CURRICULUM TRANSFORMATION: In preparing for the Class of 2011 and the new curriculum, we made adjustments in the scheduling of specific core courses for the Class of 2010. We shifted enrollment in Engr 210 and Econ 200 to ensure those departments have adequate resources when the new curriculum starts. Those courses are now locked in Q2 and cannot be moved. If you have no other options and must move a cadet in a future offering of Engr 210 or Econ 200, contact the following POCs for coordination/approval:

Engr 210: LtCol Packer (DFCE)

Econ 200: Prof Lucchesi (DFEG)

SECTION II

ADVISOR-IN-CHARGE (AIC) Academic Year 2006 – 2007

| Major | Primary AIC | Alternate AICs |
|----------------------------------|------------------------|--|
| Aeronautical Engineering | Maj Tison (DFAN) | Lt Col Hawkins (DFAN) Lt Col Boyer (DFAN) Dr. Byerly (DFAN) |
| Astronautical Engineering | Dr. Dahlke (DFAS) | Lt Col Sandfry (DFAS) |
| Bachelor of Science | Ms. Britton (DFR) | Lt Col Taylor (DFR) |
| Basic Sciences | Maj Alfonso (DFMS) | |
| Behavioral Sciences | Maj Sayegh (DFBL) | Capt Granger (DFBL) Dr. Butler (DFBL) Dr. Samuels (DFBL) Maj Lloyd (DFBL) |
| Biochemistry | Dr. Gardner (DFC) | Dr. Bird (DFC) |
| Biology | Lt Col Lykins (DFB) | Dr. Hale (DFB) |
| Chemistry | Dr. Gardner (DFC) | Dr. Bird (DFC) |
| Civil Engineering | Dr. Jenkins (DFCE) | Capt Sloan (DFCE) |
| Computer Engineering | Maj Wicker (DFEE) | Lt Col Sward (DFCS) Maj Williams (DFEC) Maj McGuirk (DFEC) |
| Computer Science | Dr. Carlisle (DFCS) | Capt Mayer (DFCS) Dr. Hadfield (DFCS) |
| Economics | Mr. Lucchesi (DFEG) | Capt Ward (DFEG) |
| Electrical Engineering | Maj Wicker (DFEC) | Maj McGuirk (DFEC) Maj Williams (DFEC) |
| Engineering Mechanics | Capt Kozola (DFEM) | Dr. Maixner (DFEM) |
| English | Capt Pipes (DFENG) | Capt Johnston (DFENG) Maj Caballero (DFENG) |
| Environmental Engineering | Capt Suermann (DFCE) | Dr. Jenkins (DFCE) |
| Foreign Area Studies | Dr. Verano (DFF) | Capt Williams (DFH) Dr. Abadi (DFH) |
| Foreign Language | Dr. Verano (DFF) | |
| General Engineering | Dr. Jenkins (DFCE) | Capt Sloan (DFCE) |
| Geography | Lt Col Rusnak (DFEG) | Maj Stowe (DFEG) |
| Geospatial Science | Lt Col Rusnak (DFEG) | Maj Stowe (DFEG) |
| History | Capt Williams (DFH) | Dr. Heidler (DFH) |
| Humanities | Dr. Greshman (DFENG) | Capt Uhl (DFPY) Capt Caballero (DFENG) Capt Johnston (DFENG) |
| Legal Studies | Prof Eggers (DFL) | Prof Austin (DFL) |
| Management | Maj Cunningham (DFM) | Capt Palmer (DFM) |
| Materials Science | Dr. Gardner (DFC) | Dr. Bird (DFC) |
| Mathematics | Capt Richardson (DFMS) | Capt Ferguson (DFMS) Dr. Herzinger (DFMS) |
| Mechanical Engineering | Capt Kozola (DFEM) | Dr. Maxiner (DFEM) |
| Meteorology | Dr. Koehler (DFEG) | Lt Col Hart (DFEG) Maj Wacker (DFP) |
| Major | Primary AIC | Alternate AICs |

| | | |
|--|-------------------------|--|
| Military Strategic Studies | Mr. Schlagheck (DFMI) | Dr. Farquhar (DFMI) |
| Operations Research | Capt Williams (DFMS) | Capt Harder (DFCS) Capt Nielsen (DFM) Capt Tharaldson (DFEG) |
| Physics | Capt Hacker (DFP) | Lt Col Dearborn (DFP) Maj Phipps (DFP) |
| Political Science | Lt Col Dumond (DFPS) | Maj Southworth (DFPS) |
| Social Sciences | Lt Col Leftwich (DFM) | |
| Space Operations | Lt Col Swanson (DFAS) | Capt Nathaniel (DFAS) |
| Systems Engineering Aeronautical | Dr. Cunningham (DFAN) | Capt Cooper (DFAN) |
| Systems Engineering Communication | Lt Col Toussaint (DFEC) | Capt Cooper (DFAN) |
| Systems Engineering Computer | Lt Col Toussaint (DFEC) | Capt Cooper (DFAN) |
| Systems Engineering Control | Lt Col Lawrence (DFAS) | Capt Cooper (DFAN) |
| Systems Engineering Electrical | Lt Col Toussaint (DFEC) | Capt Cooper (DFAN) |
| Systems Engineering Human | Capt Tidball (DFBL) | Capt Cooper (DFAN) |
| Systems Engineering Information | Maj Boleng (DFCS) | Capt Cooper (DFAN) Dr. Carlisle (DFCS) |
| Systems Engineering Management | Capt Palmer (DFM) | Maj Cunningham (DFM) |
| Systems Engineering Mechanical | Capt Kozola (DFEM) | Capt Cooper (DFAN) Dr. Maixner (DFEM) |
| Systems Engineering Space Systems | Lt Col Lawrence (DFAS) | Capt Cooper (DFAN) |

SECTION III

SUMMER 2007

ACADEMIC COURSE SCHEDULE

| Period 1 3 Jun - 23 Jun 07 | Period 2 24 Jun - 14 Jul 07 | Period 3 15 Jul - 4 Aug 07 |
|--------------------------------|--------------------------------|-------------------------------|
| Aero Engr 315 (30) | El Engr 332 (12) | Astro Engr 310 (45) |
| Beh Sci 110 (32) | English 111R (xx) | Biology 215 (60) |
| Beh Sci 310 (32) | English 411FX (10) | Chem 142R (xx) |
| Civ Engr 351 (100) | History 202 (24) | El Engr 215 (24) |
| Comp Sci 110 (60) | Math 141R (xx) | Law 220 (25) |
| Engr Mech 120 (30) | Math 300 (34) | Econ/Mgt 200 (25) |
| Geo 355 (6) | MSS 400 (40) | Pol Sci 311 (30) |
| History 202 (24) | Physics 215 (24) | |
| Math 142 (34) | | |
| Philos 310 (30) | | |
| AFS (65) Armshp 425 | | |
| | AFS (65) Armshp 425 | |

Summer Academic Registration Process

How: 1 of 2 ways

- 1) DFR preregisters select cadets based on ARC coordinator direction, or 2) Lottery

Where: a summer class can only be added in place of leave (Mil Tng 444), special leave (Mil Tng 446), or a summer ac placeholder (Smr Acad 700); each summer program is suffixed with letters – A thru I for the 9 weeks of the summer (1st period: AC, 2nd period: DF, 3rd period: GI). For instance, the schedule to the right is leave first period (444AC), BCT cadre second period (400DF), and OpsAF third period (201GI). This cadet could give up leave first period for a summer class. We cannot drop, add, or move any Mil Tng courses except for leave and the summer ac placeholder.

| | | | |
|--------|-------|------|---|
| MilTng | 201GI | 0.00 | P |
| MilTng | 400DF | 0.00 | P |
| MilTng | 444AC | 0.00 | P |
| | | 0.00 | |

- If cadets are preregistered for a summer class (visible in CAMIS/Q2 NLT 12 Mar), no other action is reqd.
- If cadets want/need a summer class (either for a summer ac + leave slot or in lieu of leave), and have not been preregistered, they fall into the lottery.

Lottery Process

Step 1: Cadets meet with their academic advisors/AOCAs to discuss summer ac course options (see the Summer 2007 Academic Schedule on DFR's web site)

Step 2: Fill out an APS (dated 12 Mar or later) in red ink: circle what to drop (leave or placeholder) and write in the desired course(s) to add; if there are multiple course options, provide a priority listing. If there are no alternatives, the odds of a cadet getting into a course suffer. Write on the APS any special instructions or information (e.g., 'has ac + lv slot and wants to take two summer courses').

Step 3: Drop off the annotated APS in DFR from 13 – 16 Mar, 0730 – 1600, (odds don't change whether a cadet's APS is the first dropped off on 13 Mar or the last dropped off on 16 Mar). Each APS will be assigned a unique number to be used in the 21 Mar lottery; the cadet will be given that number at the time of drop-off.

Step 4: On 21 Mar (1300 in F-1), DFR will conduct a lottery, pulling numbers at random and filling summer academic seats accordingly. Firstie (Class of 2008) APSs will be pulled first. Classes of 2009 and 2010 will be pooled together and pulled next. If a cadet's first course choice is already full, we'll go to the second choice, then third, etc. Anyone is welcome to attend the lottery; no one is required to attend to receive a seat in a summer class.

Note: The APS must be properly annotated and list all courses the cadet can (based on summer schedule) and would be willing to take (based on preference); certain courses traditionally fill quickly (e.g., Astro Engr 310). If the cadet only lists one course, and that course is full, there's nothing we can do without additional information/options. DFR cannot add, drop, or swap military training programs to make room for a summer academic.

SECTION IV

COURSE INFORMATION Special Topic Course Offerings Fall 2007

BEHAVIORAL SCIENCE

BEH SCI 480. INTRODUCTION TO THE PSYCHOLOGY OF RELIGION. 3(1). Despite religion's clearly central role in humanity's history and daily life, empirically based study of this unique subset of human behavior has, until relatively recently, been somewhat of a blind spot in the field of psychology. Using respected theory and sound empirical findings, this course will attempt to give our future Air Force leaders an understanding of spirituality and religiosity as *basic human behaviors*. More importantly, the course will be specifically designed to expand the aforementioned understanding to include and focus on the beliefs and practices of people whose beliefs stand in contrast (if not outright conflict) with one's own. Important: cadets will also be required to do a significant amount of reading, journaling and discussion, to include some exceptionally detailed reflection on their own spiritual development, and *should not* apply for this course if this type of reflection, discussion, or examination/questioning of their own beliefs/practices are activities they cannot engage in freely and without reservation, for either religious or personal reasons. As this is a capstone course, it will attempt to integrate a considerable amount of what our majors have learned to date, and will include exploration of some very challenging cutting-edge theory in the field in the last block of the course. Interested 2-degree and 3-degree cadets will be required to have completed either Beh Sci 352 (Social Psychology) or Beh Sci 380 (Personality) as a minimum prerequisite. The course director will also consider interested juniors and seniors who have not met these prerequisites for possible admission into the course on a case-by-case basis.

| | | |
|--------------------|--|------------------------|
| Final Paper | Prereq: BehSci 352 or BehSci 380 (or course director approval) | Sem hrs: 3 fall |
|--------------------|--|------------------------|

BEH SCI 495. LEADERSHIP AND CULTURE IN THE GLOBAL ARENA. 3(1). Effective leadership requires that one can successfully negotiate complex social situations, no matter what the culture or country. Cultural anthropology provides a window into the values, beliefs and perspectives of people from all parts of the world. USAFA graduates will find themselves stationed all over the globe. Effective leadership on your part, therefore, will hinge on your ability to work productively with individuals from a wide range of cultures, some very different from your own. Cultural anthropology will provide you with the tools to understand the range of human cultures and perspectives.

| | | |
|----------------------|----------------------------|------------------------|
| Final Project | Prereq: Beh Sci 110 | Sem hrs: 3 fall |
|----------------------|----------------------------|------------------------|

CIVIL ENGINEERING

CIV ENGR 495. INTRODUCTION TO PROTECTIVE STRUCTURES. 3(1). This course on protective structures is aimed at addressing a broad range of technical issues dealing with mitigating the severe loading effects associated with abnormal loading incidents (e.g., blast, shock, impact, etc.). This course will introduce the students to the effects of conventional and nuclear weapons on structures; to be able to define the threat of the hazard, define the loads on the structure, make a structural assessment of potential cause-and-effect relationships and recommend mitigation measures for designing or modifying the structural system to protect the people inside from the effects of explosive devices. This course will present the latest information on designing buildings to save lives--from understanding the nature of threats to analysis and design--and will provide students with practical information on performance and design requirements for hardened facilities. In addition, this course will provide information on blast damage assessment issues that will provide forensic and rescue personnel with information vital to rescue and investigative efforts after a catastrophic structure failure. The course will examine these topics: a) fortification science and technology; b) analysis, design, assessment, and retrofitting; c) industrial explosive safety; d) antiterrorist design; e) hazard sources; f) physical security; and g) blast damage assessment

| | | |
|---------------------|-----------------------------|------------------------|
| Final Report | Prereq: Civ Engr 372 | Sem hrs: 3 fall |
|---------------------|-----------------------------|------------------------|

GEOSPATIAL SCIENCE

GEO 495. HUMAN IMPACTS ON THE ENVIRONMENT. 3(1). This course will examine how past societies, like the Mayans, Vikings, and inhabitants of Easter Island, may have led to their own collapse. Students will be challenged to draw comparisons to modern societies, identify practical lessons learned, and present current human impacts on the environment of their choice. The course will examine spatial distributions of environmental degradation, climate change, hostile neighbors, trade, and societal responses.

| | | |
|----------------------|---------------------|------------------------|
| Final Project | Prereq: None | Sem hrs: 3 fall |
|----------------------|---------------------|------------------------|

HUMANITIES

HUM 495. ISLAMIC AND ARAB CULTURE. 3(1). The goal of this course is to introduce the cadets to Islamic and Arab culture and religion, as well as an important part of Islamic history, the history of El-Andalus. The course is divided into three main blocs. The first part covers the Muslims' beliefs and the way they practice their religion. The second part deals with an important part of Islamic history, the history of Islam or the history of the Arabs in Iberian Peninsula. In the third part, cadets will explore Muslims' culture through this part of Islamic history, how Muslims interacted with the Christians and Jews at that time, and how Muslims contributed to world civilization. Based on the knowledge gained during this course, each cadet will investigate and present a special topic of his/her interest which gives more enlightenment on Muslims today.

| | | |
|-------------------------------------|---------------------|------------------------|
| Final Paper & Final Exam | Prereq: None | Sem hrs: 3 fall |
|-------------------------------------|---------------------|------------------------|

LAW

LAW 495. CYBERLAW. 3(1). This course explores the multitude of legal issues affected by the use of computers and the internet. The course closely examines the evolution of criminal law in

cyberspace, specifically the problems associated with jurisdiction, the right of privacy, search and seizure, and evidence. The course will also examine how cyberspace impacts the law of war, including what constitutes the use of force in cyberspace, and how this all influences traditional notions of sovereignty. Although some basic technical information will be discussed during the semester, this course is designed for the non-technical student. The emerging legal issues discussed will also stimulate the interest of the technical student. As future commanders, cadets must be prepared to handle computer related legal issues, whether criminal, intellectual property, or use of force. This course will discuss these emerging problems of the 21st Century.

| | | |
|-----------------------------------|------------------------|------------------------|
| Final Exam or Final Report | Prereq: Law 220 | Sem hrs: 3 fall |
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MILITARY STRATEGIC STUDIES

MSS 495. ARAB-ISRAELI WARS. 3(1). To understand the conflict between Arabs and Israelis and its central role in shaping US foreign policy—particularly military involvement—in the Arab world, we will use the comparative approach. We want to glance through a multifaceted “comparative lens” in order to understand why two peoples yearn for the same land; and more importantly, why their conflict has been one of the most significant in shaping world history during the last 50-plus years; we will delve into a basic understanding of the religious role, from Muhammad’s night journey to Al Quds (Jerusalem) to the significance of the “City of David” in Jewish history. We will apply the knowledge gained through our comparative lens of analysis to assess U.S. policy making in the region. Many difficult questions arise, but the most important issue relates to current military involvement in the region. How should the US conduct the Global War on Terror? What parallels might be drawn from the Israeli-Palestinian conflict, and what role should the US play in negotiations? Properly answering these questions are among the most difficult faced by the Bush administration, but addressing them is key to winning the war against terror and crucial to building stability in this strategic, oil rich region of the globe.

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| Final Paper | Prereq: MSS 100 | Sem hrs: 3 fall |
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PHYSICS

PHYSICS 495. NUCLEAR REACTOR ANALYSIS. 3(1). This course provides the student with an understanding of the fundamental physical principles involved in nuclear fission and the operation of nuclear reactors. Starting with a brief study of relevant topics from modern physics, the course covers neutron interactions with matter, fission, neutron diffusion, neutron moderation, and the criticality of various reactor types. This course is essential for the nuclear engineer and is an excellent choice for the applied scientist. Two in-class laboratory exercises. One design problem is included. Compensatory time is given for this group requirement.

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| Final Exam | Prereq: Physics 215 | Sem hrs: 3 fall |
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