

# VILLANOVA UNIVERSITY CATALOG



SUMMER 2008

*J. Stagliano MFA*



VILLANOVA UNIVERSITY  
800 LANCASTER AVENUE  
VILLANOVA, PENNSYLVANIA 19085-1699

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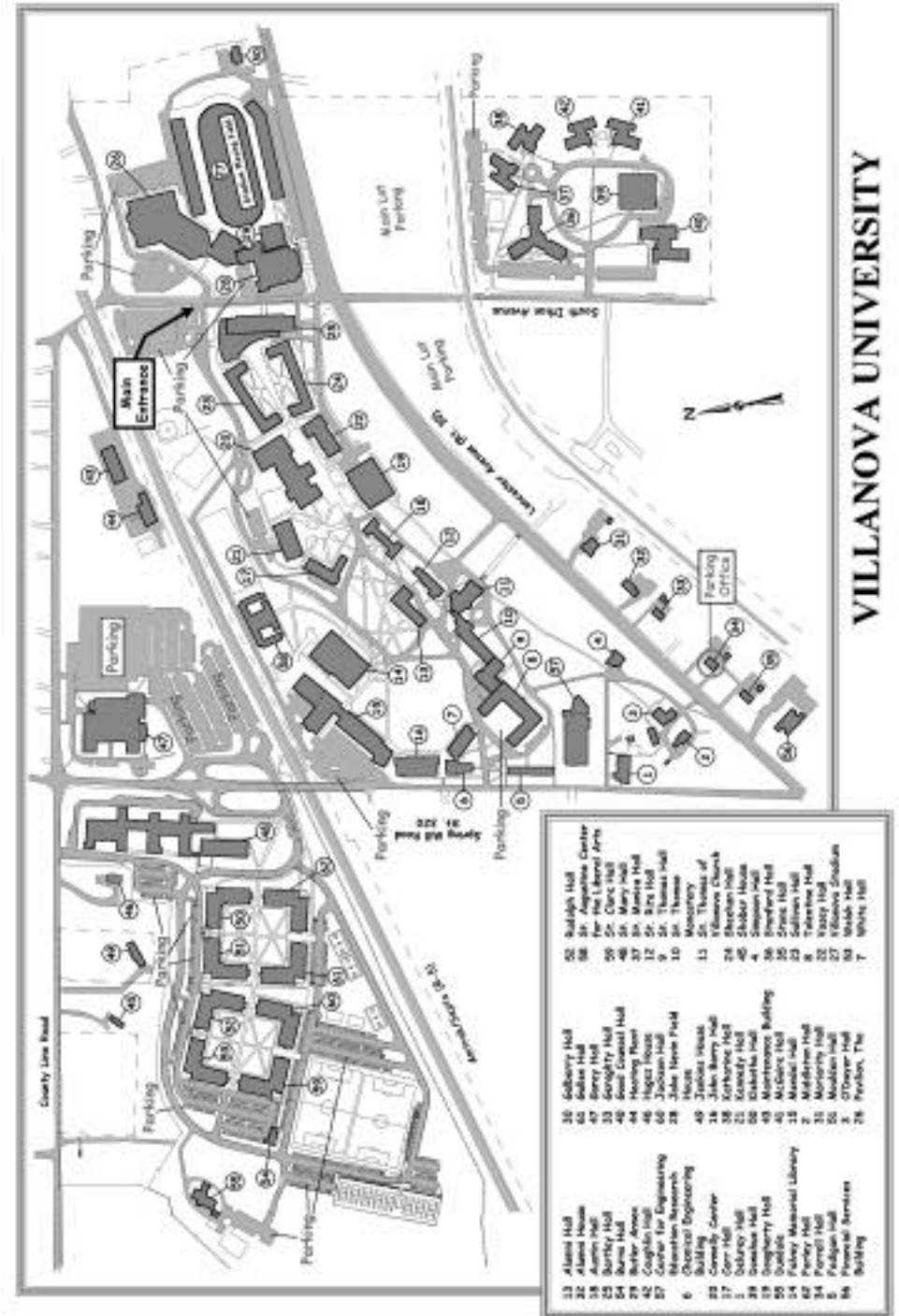
**The Philadelphia Museum of Art and the Water Works  
by Brother Jack Stagliano, OSA**

One of the most recognizable buildings in Philadelphia, this view of the museum, with the old Water Works in the foreground, is seen by visitors driving into the city on the Schuylkill Expressway. Covering ten acres of ground the museum contains over 200 galleries.

This painting by Brother Jack Stagliano, OSA, associate professor of studio art at Villanova University and artist with the Augustinian Press is the twelfth summer catalog cover contributed by Brother Jack.

**CAMPUS SCENE**

This lithograph represents Villanova c. 1887 and portrays the central location of the College Building (now Alumni Hall) surrounded on the East by the extensive farm barns; on the South by the enlarged monastery (formerly Rudolph Mansion) and the newly constructed Saint Thomas Church; on the West by the old Augustinian community cemetery, the “gymnasium” chapel, and the playing fields; on the North by the “Main Line” of the old Pennsylvania Railroad.



VILLANOVA UNIVERSITY

# VILLANOVA UNIVERSITY CATALOG SUMMER SESSIONS 2008

## GRADUATE AND UNDERGRADUATE DAY AND EVENING COURSES

<b>MBA Session (001)*</b> .....	May 19-July 17
<b>Session I (010)*</b> .....	May 28-June 25
<b>Session II (020)*</b> .....	June 27-July 28
<b>Evening Session (030)*</b> .....	May 28-July 28

\*Session numbers

**Summer Sessions telephone number: (610) 519-4300**  
**Web address: [www.parttime.villanova.edu](http://www.parttime.villanova.edu)**

While this catalog was prepared on the basis of the best information available at the time of publication, all information, including statements of fees, course offerings, admissions, and graduation requirements, is subject to change without notice or obligation. **All summer courses are offered contingent on enrollment.**

For the most updated information on courses, times and details please visit: <http://novasis.villanova.edu>.

## VILLANOVA UNIVERSITY

January, 2008

Vol. CXXXVV No.1

An Equal Opportunity/Affirmative Action Employer

Villanova University is an affirmative action institution complying with the requirements of Executive Order 11246 as Amended by 11375; Title IX; and the Rehabilitation Act of 1973, Section 503 and 504.

## WELCOME TO VILLANOVA IN THE SUMMER

The summer program at Villanova is designed to assist you to fill your academic needs in a productive yet pleasant environment. There are graduate and undergraduate courses in the liberal arts, sciences, engineering, education, business and nursing. With two four-week day sessions, an eight-week evening session, internships, summer abroad programs, independent studies and weekend workshops, you are sure to find a course that fits your requirements.

Courses in the summer are open to visiting students from other colleges as well as Villanova's current graduate and undergraduate students. Members of the local community and adult students who wish to return to college, take a course for personal enrichment, expand their professional knowledge or enhance career options are encouraged to enroll in summer sessions. If you wish to reside on campus, room and board are available in our residence halls.

Together with our excellent faculty, summer students form a community of scholars dedicated to learning within an environment of academic excellence. You are welcome to join this community for the summer session and enjoy the Villanova experience.

For more information on summer sessions and assistance with registration, please visit the summer sessions office in room 107 Vasey Hall or call (610) 519-4300 or go to [www.parttime.villanova.edu](http://www.parttime.villanova.edu).

### — SPECIAL FOR SUMMER 2008 —

**Distance Learning.** Would you like to earn Villanova credits but cannot stay at Villanova this summer? For summer 2008, Villanova summer sessions will offer forty-six undergraduate courses and nine graduate courses which may be completed away from the campus while still earning Villanova credits toward your degree. These courses will use computers, Blackboard/Vista, the Internet, CDrom, e-mail or a combination of these formats. Courses include: Introductory Statistics, Principles of Financial Accounting, Philosophy and Film, Principles of Marketing and Principles of Nutrition. See the catalog section on Distance Learning on page 75 for a complete listing.

**Villanova Summer Business Institute.** Invest in your future... The Villanova Summer Business Institute (SBI) is a 9 week, intensive 16 cr. hr. business program for non-business college students and recent graduates with liberal arts, science or engineering degrees that leads to a Certificate in Business. Graduates of the SBI will meet Villanova student requirements for a minor in business. Please see page 85 for details on this program.

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# DIRECTORY

Villanova University Offices are open Monday through Friday from 9 a.m. to 5 p.m. The Part-Time Studies office is also open from 9 a.m. to 7 p.m., Monday through Thursday.

**The University telephone number is (610) 519-4500.**

**The Summer Sessions telephone number is (610) 519-4300.**

**The Summer Sessions Web address is [www.parttime.villanova.edu](http://www.parttime.villanova.edu).**

FOR INFORMATION ABOUT	CONSULT	PHONE
<b>ADMISSIONS</b>		
Full-Time Undergraduate	Office of Undergraduate Admission - Austin Hall	610-519-6450
Part-Time Evening Undergraduate	Part-Time Studies 107 Vasey	610-519-4300
Graduate	Graduate Studies Kennedy Hall, 2nd floor	610-519-7090
Law School	Villanova University School of Law, 51 Garey	610-519-7010
<b>DEANS</b>		
Arts and Sciences	105 St. Augustine	610-519-4600
Villanova School of Business	1045 Bartley	610-519-4330
Engineering	310 CEER	610-519-4940
Nursing	St. Mary's, 1st floor	610-519-4900
Graduate Studies	Kennedy Hall, 2nd floor	610-519-7090
<b>ACADEMIC DEPARTMENTS</b>		
Accountancy and Management Information Systems	3019 Bartley	610-519-4340
Art History	403 St. Augustine	610-519-4660
Astronomy & Astrophysics	456 Mendel	610-519-4820
Augustine & Culture	104 St. Augustine	610-519-7325
Biology	152A Mendel	610-519-4830
Chemical Engineering	217 White	610-519-4950
Chemistry	215A Mendel	610-519-4840
Civil Engineering	139 Tolentine	610-519-4960
Classical Studies	304 St. Augustine	610-519-6165
Communication	203 St. Augustine	610-519-4750
Comprehensive Science	451 St. Augustine	610-519-8900
Computer Science	161 Mendel (Graduate)	610-519-7310
	161 Mendel (Undergraduate)	610-519-7307
Criminal Justice, Graduate	486 St. Augustine	610-519-4786
Economics and Statistics	2015 Bartley	610-519-4370
Education & Human Services	302A St. Augustine	610-519-4624
Electrical Engineering	411 Tolentine	610-519-4970
English	402 St. Augustine	610-519-4630
Ethics	485 St. Augustine	610-519-4692
Finance	2019 Bartley	610-519-7395
Geography	202 St. Augustine	610-519-4710
Global Interdisciplinary Studies	433 St. Augustine	610-519-6964
History	403 St. Augustine	610-519-4660
Human Resource Development - Graduate	FSB Ground Floor	610-519-6360
Human Services	302A St. Augustine	610-519-4624
Humanities	304A St. Augustine	610-519-6165
Internship	420 St. Augustine	610-519-4232
Leadership	107 Vasey Hall	610-519-4305
Liberal Studies - Graduate	164 St. Augustine	610-519-4796

Management and Decision & Information Technologies	2083 Bartley	610-519-6924
Marketing and Business Law	3015 Bartley	610-519-4350
Masters of Business Administration	1054 Bartley	610-519-4336
Mathematical Sciences	305 St. Augustine	610-519-4850
Mechanical Engineering	111 Tolentine	610-519-4980
Modern Languages and Literatures	303 St. Augustine	610-519-4680
Nursing	St. Mary's, 1st floor	610-519-4900
Peace & Justice	Sullivan, Ground Floor	610-519-4499
Philosophy	108 St. Augustine	610-519-4690
Physics	352A Mendel	610-519-4862
Political Science	202 St. Augustine	610-519-4710
Psychology	334 Tolentine	610-519-4720
Public Administration - Graduate	202 St. Augustine	610-519-8901
Sociology	204 St. Augustine	610-519-4740
Studio Art and Music	205 St. Augustine	610-519-4760
Theatre	205 St. Augustine	610-519-4760
Theology and Religious Studies	107 St. Augustine	610-519-4730
Women's Studies	206D Old Falvey	610-519-3815
ADVISOR TO STUDENTS WITH DISABILITIES	Connelly Center, 2nd Floor	610-519-4095
BOOKSTORE	The University Shop Kennedy, 1st floor	610-519-4160
CAMPUS MINISTRY	Campus Ministry Center St. Rita's, lower level	610-519-4080
CAREER SERVICES	Career Services Corr, lower level	610-519-4060
CONTINUING STUDIES	Office of Continuing Studies Stanford Hall	610-519-4310
COUNSELING ASSISTANCE	Health Services Building	610-519-4050
FINANCIAL ASSISTANCE	Office of Financial Assistance Kennedy, 2nd floor	610-519-6456
HEALTH SERVICES	Health Services Building	610-519-4070
HOUSING SERVICES	Office for Residence Life Kennedy, 2nd floor	610-519-4155
ID CARDS	WildCard Office Dougherty, 1st floor	610-519-5031
LIBRARY	Falvey Memorial Library	610-519-4271
LOST AND FOUND	Public Safety Farrell Hall, 1st floor	610-519-6985
NOVASIS	Registrar's Office 202 Tolentine	610-519-4030
PUBLIC SAFETY	Farrell Hall, 1st floor	610-519-6979
REGISTRATION	Registrar's Office 202 Tolentine	610-519-4030
SUMMER SESSIONS	Summer Sessions Office 107 Vasey	610-519-4300
TRANSCRIPT REQUESTS	Registrar's Office 202 Tolentine	610-519-4046
TUITION AND FEES	Bursar's Office Kennedy, 1st floor	610-519-4258



# CALENDAR

## SUMMER SESSIONS 2008

MAY							JUNE							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	1	2	3	4	5	6	7	6	7	8	9	10	11	12
11	12	13	14	15	16	17	18	19	20	21	22	23	24	13	14	15	16	17	18	19
18	19	20	21	22	23	24	25	26	27	28	29	30	31	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	30	31		

### MBA SESSION MAY 19 – JULY 17

Tuesday, March 18	On-line Registration begins at 9:00 a.m.
Monday, May 19	Classes begin.
Monday, May 26	Memorial Day. No classes scheduled.
Wednesday, June 11	Last day for authorized withdrawal without academic penalty.
Monday, July 14	Final exam for M/W classes.
Thursday, July 17	Final exam for T/R classes.

### SESSION I MAY 28 – JUNE 25

Tuesday, March 11	Continuous Registration begins.
Tuesday, May 27	Walk-through registration for Summer Session I, 4-7 p.m., Connely Center. Late fee applies after this date.
Wednesday, May 28	Classes begin.
Friday, May 30	Last day for late registration and for dropping or adding courses.
Monday, June 16	Last day for withdrawing from courses or changing from credit to audit.
Wednesday, June 25	Final examinations will be held on June 25th or the last scheduled class day.

### EVENING SESSION MAY 28 – JULY 28

Tuesday, March 11	Continuous Registration begins.
Tuesday, May 27	Walk-through registration for Evening Session III, 4-7 p.m., Connely Center. Late fee applies after this date.
Wednesday, May 28	Classes begin.
Thursday, June 5	Last day for late registration and for dropping or adding courses.
Friday, July 4	Independence Day holiday. No classes scheduled.
Thursday, July 10	Last day for withdrawing from courses or changing from credit to audit.
Monday, July 28	Final examinations will be held on July 28th or the last scheduled class day.

### SESSION II JUNE 27 – JULY 28

Tuesday, March 11	Continuous Registration begins.
Thursday, June 26	Walk-through registration for Summer Session II, 3-5 p.m., 107 Vasey Hall. Late fee applies after this date.
Friday, June 27	Classes begin.

Tuesday, July 1	Last day for late registration and for dropping or adding courses.
Friday, July 4	Independence Day Holiday. No classes scheduled.
Thursday, July 17	Last day for withdrawing from courses or changing from credit to audit.
Monday, July 28	Final examinations will be held on July 28th or the last scheduled class day.

### **SPECIAL DATES FOR GRADUATE STUDENTS**

Friday, May 30	Last day for application for language examination, made in office of the Department of Modern Languages and Literatures. Last day for application for comprehensive examination, made in the office of the department chairperson.
Wednesday, June 11	Language examination, 2 p.m.
Friday, June 27	Last day for application for diploma for students expecting to complete degree requirements by the end of Summer Sessions.
Saturday, July 5	Written comprehensive examination 9 a.m.-12 p.m. and 2-5 p.m. Last day for oral comprehensive examinations whenever required.
Friday, July 11	Thesis/dissertation in final form due in the Graduate Studies Office for those students expecting to complete degree requirements by the end of Summer Sessions. (Students must then post on-line.)
Friday, July 25	Last day for "N" grade conversion to be received by Registrar for Summer Session I.
Tuesday, September 2	Last day for "N" grade conversion to be received by Registrar for Summer Session II and Evening Session (SS III).

**All summer classes are scheduled contingent on sufficient enrollment.**

# GENERAL INFORMATION

## VILLANOVA UNIVERSITY SUMMER SESSIONS

Villanova University was founded by the Augustinian Order in 1842. The University traces its origins to old St. Augustine's Church in Philadelphia, which the Augustinians founded in 1796, and to its parish, St. Augustine's Academy, established in 1811.

In 1842 the Augustinians purchased "Belle Air," the country estate of John Rudolph, a Revolutionary War officer and Philadelphia merchant. There they established the "Augustinian College of Villanova," under the patronage of St. Thomas of Villanova, a sixteenth-century Augustinian educator and Bishop of Valencia, Spain. Eventually the college came to be known as Villanova and gave its name to the town which grew up around it.

Villanova is committed to Catholic traditions and the educational heritage of the Augustinian Order. The University provides a Christian intellectual and moral environment, but maintains a strong respect for the beliefs of its diverse community of faculty members, students and staff.

Villanova comprises four undergraduate colleges: Arts and Sciences, the Villanova School of Business, Engineering and Nursing, and the Division of Part-Time Studies. The University is also comprised of Graduate Studies and the Law School.

Villanova's Summer Sessions program was inaugurated in 1918 to assist students in accelerating their academic programs. Since that time, Summer Sessions enrollment has increased from 70 to over 4,000 students. The undergraduate and graduate sessions attract hundreds of students from other colleges and universities, and part-time as well as full-time Villanova students.

By taking the maximum number of courses allowed in the three Summer Sessions, an undergraduate student can complete the equivalent of a regular semester's work. Course requirements are the same as those stipulated in the University Catalog. Most of the courses are taught by full-time University faculty.

### LOCATION

Villanova University is in Villanova, Pennsylvania, on Lancaster Pike (U.S. Route 30). Six miles west of City Line, Philadelphia, the University is half an hour away from center city Philadelphia. The Villanova campus of over 240 acres is in an attractive residential area. The University buildings are large stone structures with modern equipment.

Public transportation to and from campus includes two trains, the Paoli Local and the Norristown High-Speed Line of the Southeastern Pennsylvania Transportation Authority. SEPTA also operates bus route 105 through the campus.

Villanova is a short drive from the Norristown exit of the Pennsylvania Turnpike via Rt. 476 south to the Villanova exit, then east on Rt. 30.

### ADMISSION

Admission into Villanova is separate from the registration process and should be accomplished prior to registration.

Students interested in graduate or undergraduate academic year programs should contact the appropriate admissions office for information, programs of study, and requirements for admission and graduation. Students seeking degree status must meet admission standards and supply the necessary credentials.

### VISITING STUDENTS

Non-matriculating students who attend the Summer Sessions only (including students from other colleges and universities) may enroll in undergraduate classes without applying formally to Villanova.

Anyone interested in enrolling in graduate classes must submit an application form and a letter from their graduate dean or their academic credentials for admission to Graduate Studies. For the MBA Program, prospective visiting students should contact the Coordinator, Clare Haux, Graduate Business Programs, for information on gaining permission to MBA courses as a visiting student.

**Enrollment in a Summer Session does not imply acceptance as a degree candidate in any division of Villanova University.**

## **ADVISEMENT**

Students may register for summer courses by completing the registration form attached to this Catalog and by observing the following guidelines.

- 1) **Current Villanova Students.** Undergraduates, including Part-Time Studies students, both degree and nondegree, **must have their registration forms signed by their department advisor/chair, or in the case of those who have not declared a major, by their college dean.** Graduate students must have their registration forms signed by the department chair, their department advisor, or their program director.
- 2) **New Villanova Students.** Undergraduate students who have been admitted to the University for the 2008 fall semester **must have their registration forms signed by their academic deans.** Graduate students who have been admitted must have their registration forms signed by their department chair, their department advisor, or their program director. Graduate students who have been admitted for the Fall 2008 semester but wish to begin their studies in the Summer 2008 session must request to have their admit term adjusted in the Dean's office.
- 3) **Students From Other Universities and Colleges** who wish to transfer Villanova summer credits to their schools should make appropriate arrangements with officials at their schools. For graduate students, a letter from their dean to the Graduate Studies Office of Villanova University is required. Certain graduate courses have prerequisites, and visiting students must be approved by the department chair and the Graduate Studies Office before admittance. Undergraduates must have senior status, a 3.0 cumulative average, and permission of the instructor, course chair, advisor, course dean, and graduate dean in order to enroll in graduate courses.
- 4) **Secondary-School Students** must, in addition to completing the registration form, submit a letter of recommendation to the Director of Summer Sessions, from their principal or guidance counselor. These registrations will be reviewed by the department chair prior to approval.

**Students dismissed from Villanova University may not attend Summer Sessions.**

## **REGISTRATION**

SEE CALENDAR FOR APPROPRIATE SESSION.

Registration is conducted by one of the following methods:

### **1. ADVANCE REGISTRATION**

The completed registration form, with appropriate signatures, is mailed or delivered to:

Office of the Registrar  
Tolentine Hall, Room 202  
Villanova University  
Villanova, PA 19085

2. In-person registration in the Office of Summer Sessions, Room 107 Vasey Hall or walk-in registration in the Connelly Center the day before classes begin.
3. By Fax, with student's signature, to (610) 519-7910.
4. Online registration, via NOVASIS, for current Villanova students.

## DEADLINES FOR REGISTRATION AND PAYMENT OF TUITION AND FEES

(Continuous Registration begins Tuesday, March 11, 2008)

Session	Session Starting Date	In-Person Registration Dates Late Fee Applies After These Dates
MBA Session	May 19	Must be conducted in MBA office prior to the first day of class
Session I	May 28	May 27 4-7 p.m. Connelly Center
Evening Session	May 28	May 27 4-7 p.m. Connelly Center
Session II	June 27	June 26 3-5 p.m. 107 Vasey Hall

### ADVANCE REGISTRATION/BILLING SCHEDULE

Payments are due no later than the first day of class. This requirement applies to all students, including those who register too late to receive a bill. Students may also register and pay at walk-in registration.

To complete the registration process, advance registered students must pay their accounts by the first day of class or they are subject to a late registration and late payment fee.

After the registration process is completed, the student should report to the classroom at the times indicated on line.

### LATE PAYMENT FEE

A Late Payment fee is charged to any account which is not paid in full by the official first day of class.

### LATE REGISTRATION

Registrations will not be accepted after May 30 for the First Session, June 5 for the Evening Session, and July 1 for the Second Session.

### REGISTRATION FORMS

There is a registration form on the last page of this Catalog. MBA students should contact the Office of Graduate Business Programs for registration information.

Registration forms may be obtained at the offices of the school deans; Graduate Studies, Kennedy Hall, 2nd floor (610-519-7090); the Registrar's Office, 202 Tolentine Hall (610-519-4032); and the Summer Sessions Office, 107 Vasey Hall (610-519-4300). Registration forms may also be requested by telephone or by mail. Registration forms are also available on line at [www.parttime.villanova.edu](http://www.parttime.villanova.edu).

### IDENTIFICATION CARDS

Photo Identification cards for students attending Villanova for the first time, will be taken during walk-in registration at the Wildcard Office in Dougherty Hall on the dates and times of registration or 8:00 a.m.-5:00 p.m. (Monday through Friday). You can also apply for your Photo Identification card on line at [www.villanova.edu/photo](http://www.villanova.edu/photo).

## FINANCIAL INFORMATION

### TUITION\* (Per credit)

#### UNDERGRADUATE

##### Full Time Villanova Students/Visiting Students

Arts/Science/Nursing .....	\$615
Villanova School of Business .....	\$615
Engineering .....	\$665

##### Part Time Studies Division Students

Arts/Science/Nursing .....	\$445
Villanova School of Business .....	\$485

#### GRADUATE

Arts, Mathematics .....	\$610
Science .....	\$675
Nursing .....	\$655
Engineering .....	\$880
MBA .....	\$750

### OTHER FEES\*

General fee	
Graduate .....	\$60
Undergraduate .....	\$15
Late Registration fee .....	\$25
Reinstatement fee (1) .....	\$250

### ROOM AND BOARD CHARGES: Summer Sessions Only

(Housing Form on page 91)

#### Rates:

Undergraduate Residence in St. Monica or Katherine Halls – \$1,175 (double) for Session I or II; \$2,350 (double) Session III (all summer).

\* Subject to change at the discretion of the University Administration. Financial obligations are not considered satisfied until checks have cleared the bank; a collection charge of \$25 is imposed for all checks not accepted by the bank.

(1) A reinstatement fee will be charged for students requesting reinstatement after being officially dropped for failure to complete registration requirements. Registration requirements include payment or making appropriate financial arrangements with the Bursar's Office. Students are financially responsible for all courses in which they register. Other conditions may also apply.

## FINANCIAL ASSISTANCE

Director: Bonnie Lee Behm  
Office location: Kennedy Hall, second floor  
Office hours: 8:30 a.m. to 5:30 p.m., Monday through Thursday  
8:30 a.m. to 5:00 p.m., Friday  
Telephone: (610) 519-4010  
FAX: (610) 519-7599  
email: [finaid@villanova.edu](mailto:finaid@villanova.edu)  
website: [www.finaid.villanova.edu](http://www.finaid.villanova.edu)

Federal Stafford, Federal GRAD PLUS, Federal PLUS and Alternative Loans are available to eligible students who are enrolled at least half-time in summer courses at Villanova. Federal Pell Grants and summer state grants may also be available. In order to be considered as an eligible applicant the student must be accepted into a degree seeking program at the University, be enrolled at least half-time and making satisfactory academic progress. Students receiving degrees from other colleges and universities who are taking summer courses at Villanova and wish to obtain financial assistance should contact the financial aid office at their "home" institution.

Villanova University students interested in applying for summer term loans (Federal Stafford, Federal GRAD PLUS, Federal PLUS or Alternative Loans) must contact the Office of Financial Assistance for instructions on applying for aid for this period.

Questions concerning eligibility and the application process should be directed to the Office of Financial Assistance.

## REFUNDS

The dropping of any course for which a student is registered is official only when the academic dean has signed the proper form for Villanova students. The Director of Summer Sessions signs the form for visiting students.

Students who have executed the required withdrawal forms (see WITHDRAWAL, p.14), will be charged tuition at the following rates.

### MBA Session (May 19-July 17)

Withdrawal within 24 hours of first scheduled class day . . . . . NO CHARGE

Withdrawal on or before May 26 . . . . . student will be charged 25%

Withdrawal after May 26 . . . . . student will be charged 100%

### Session I (May 28-June 25)

Withdrawal within 24 hours of first scheduled class day . . . . . NO CHARGE

Withdrawal on or before June 4 . . . . . student will be charged 25%

Withdrawal after June 4 . . . . . student will be charged 100%

### Evening Session (May 28-July 28)

Withdrawal within 24 hours of first scheduled class day . . . . . NO CHARGE

Withdrawal on or before June 4 . . . . . student will be charged 25%

Withdrawal after June 4 . . . . . student will be charged 100%

### Session II (June 27-July 28)

Withdrawal within 24 hours of first scheduled class day . . . . . NO CHARGE

Withdrawal on or before July 7 . . . . . student will be charged 25%

Withdrawal after July 7 . . . . . student will be charged 100%

**THE PERCENT OF TUITION CHARGED IS BASED ON TOTAL TUITION CHARGES, EXCLUSIVE OF FEES; NON-ATTENDANCE OF CLASS DOES NOT CONSTITUTE OFFICIAL WITHDRAWAL.**

All financial transactions are conducted between the student and Villanova University. Refund checks are made payable to the student.

Based on the above schedule, students who are eligible for a refund must either present in person or mail a written refund request to the Student Account Specialist, Bursar's Office, Kennedy Hall, Villanova University, Villanova, PA 19085.

# ACADEMIC INFORMATION

## ADD/DROP

Current Villanova students wishing to add a course, to change a course or section for another course or section, or to drop a course, may do so in Novasis using the summer registration access code issued by your advisor. Visiting students (those not enrolled in Villanova during the regular academic year) must obtain approval from the Director of Summer Sessions.

Adding or changing courses or sections is not permitted after May 30 for the First Session; June 5 for the Evening Session; and July 1 for the Second Session.

## WITHDRAWAL

Any student may withdraw from a course without academic penalty after obtaining the approval of the appropriate dean according to the following schedule: June 11 for the MBA Session; May 30 to June 16, inclusive, for Session I; June 5 to July 10, inclusive, for the Evening Session, and July 1 to July 17, inclusive, for Session II.

After these periods, students may request withdrawal from any course up to and including the last class day of each session. A Villanova student who wishes to withdraw from courses must give the appropriate dean a written statement of cause for withdrawal and the written recommendation of the instructor and the instructor's chairperson. For all students in Graduate Arts and Sciences, a request for a withdrawal after the deadline requires documentation of a non-academic reason for the withdrawal. Withdrawal will be contingent upon the approval of the student's dean. MBA students must submit a written request for withdrawal to the Assistant Dean.

Visiting students (those not enrolled in the University during the regular academic year), must obtain approval from the Director of Summer Sessions.

All withdrawals must be made in person or in writing. No withdrawals will be accepted over the telephone.

When authorizing a withdrawal after the add/drop period, a dean may assign a grade of W or WX to the student.

The grade of Y is given for any undergraduate course from which a student withdraws without approval.

Withdrawal without academic penalty does not imply a waiver of financial obligations. Please refer to the refund schedule.

## WITHDRAWAL FROM THE UNIVERSITY

A Villanova student requests withdrawal from the University by a letter to the appropriate dean. A student who withdraws from a program cannot resume studies until formal readmission to the University.

Withdrawal from the University should not be confused with changes in registration status.

## AUDIT

Auditors pay the same fees and tuition as matriculating students. Students wishing to audit a course must fill out an "AUDIT" form in the Registrar's Office, Tolentine Hall, Room 202. Evening students may complete the "AUDIT" form in the Part-Time Studies Office, Vasey Hall, Room 107. The auditing student is not responsible for course examinations and assignments, but must attend all class and laboratory sessions. The MBA Program does not offer an "audit" grade as an option for their students. Courses taken as "audit" will not count towards any degree requirements in the Graduate Studies program.

A student who has registered for credit and wishes to change his registration to audit must do so in the first half of the course. Students are not permitted to change their registration status from credit to audit after June 16 for Session I, July 10 for the Evening Session, and July 17 for Session II.

Visiting students who plan to have summer courses transferred to another school are advised not to audit a course unless approval is granted from that school.



## **SATISFACTORY/UNSATISFACTORY OPTION**

A student may elect to take some of the undergraduate courses offered on a Satisfactory/Unsatisfactory basis after securing approval at the appropriate dean's office. Visiting students who plan to have summer courses transferred to another school are advised not to elect the Satisfactory/Unsatisfactory option unless approval is granted from that school.

The grade (S) is equal to the grade C or better; the grade (U) is equivalent to a failure. Neither (S) nor (U) affects the student's Quality Point average.

Students who elect the Satisfactory/Unsatisfactory option must fill out a Satisfactory/Unsatisfactory form in the Registrar's Office, Tolentine Hall, Room 202. Evening students may complete the Satisfactory/Unsatisfactory form in the Office of Part-Time Studies, Vasey Hall, Room 107.

A student must elect the Satisfactory/Unsatisfactory option by the end of the add/drop period. This is May 30 for the First Session, June 5 for the Evening Session, and July 1 for the Second Session. A letter grade is not recorded for a course taken on a "Satisfactory/Unsatisfactory" basis.

## **CLASS ATTENDANCE**

The intensive nature of summer study does not generally allow for absences. It is the responsibility of the student to ascertain the attendance policy of each Summer Session instructor. Ignorance, misunderstanding or misinformation of an instructor's attendance policy is not a reason for reconsideration of a grade.

## **COURSE NUMBERING**

Courses numbered 0001 to 6999 are undergraduate courses. Courses numbered 7000 to 7999 are graduate courses to which undergraduate students are admitted with the permission of the department chairman and the Dean of the Graduate School. Courses numbered 8000 to 9999 are limited to graduate students.

## **CREDIT**

Courses offered in the Summer Sessions carry full academic credit.

## **COURSE CANCELLATIONS**

All summer courses are offered contingent on sufficient enrollment. The University reserves the right to cancel all courses for which there is insufficient enrollment.

## **CLASS LOAD**

Two courses constitute a maximum full-time program in each regular Summer Session. Fifteen credit hours constitute a maximum full-time program in a combination of day and evening courses.

## **FINAL EXAMINATIONS**

Final examinations are obligatory in most courses. They are held on the last scheduled class day of each session, in the same classroom used during the regular Summer Session classes.

## **GRADE REPORT**

Grades are available through **NOVASIS** at the end of each session. Visiting students must make formal written transcript requests through the Registrar's Office to report grades to other institutions. **Any inaccuracies in grades reported must be reported to the Registrar within two weeks.** The official grade report is part of the student's cumulative record.

## **GRADING SYSTEM**

**The scale of marks is as follows:**

### **UNDERGRADUATE**

A is the highest academic grade possible; an honor grade which is not automatically given to a student who ranks highest in the course, but is reserved for accomplishment that is truly distinctive and demonstrably

outstanding. It represents a superior mastery of course material and is a grade that demands a very high degree of understanding as well as originality or creativity as appropriate to the nature of the course. Student works independently with unusual effectiveness and often takes initiative in seeking new knowledge outside the formal confines of the course.

A-  
B+  
B

is a grade that denotes achievement considerably above acceptable standards. Good mastery of course material is evident and student performance demonstrates a high degree of originality, creativity, or both. Student works well independently and often demonstrates initiative. Analysis, synthesis, and critical expression, oral or written, are considerably above average.

B-  
C+  
C

indicates a satisfactory degree of attainment and is the acceptable standard for graduation from college. It is the average grade that may be expected of a student of average ability who gives to the work a reasonable amount of time and effort. This grade implies familiarity with the content of the course and acceptable mastery of course material. Student displays some evidence of originality, creativity, or both. Student works independently at an acceptable level and completes all requirements in the course.

C-  
D+  
D

denotes a limited understanding of the subject matter, meeting only the minimum requirements for passing the course. It signifies work which in quality and/or quantity falls below the average acceptable standard for the course. Performance is deficient in analysis, synthesis, and critical expression; little evidence of originality, creativity, or both.

D-  
F

indicates inadequate or unsatisfactory attainment; serious deficiency in understanding of course material and failure to complete requirements of the course.

IN  
S  
SP  
WX  
W  
U  
AU  
Y

Incomplete

Satisfactory. Assigned in Satisfactory/Unsatisfactory courses.

Satisfactory Progress

Approved withdrawal without penalty

Approved withdrawal with penalty

Unsatisfactory. Assigned in Satisfactory/Unsatisfactory courses.

Audit

Unofficial withdrawal from course (or for freshmen, failure for excessive absences).

NG (or blank) No grade reported

## GRADUATE

Grades are recorded at the end of each semester or Summer Session. The student receives an official report by mail. Any inaccuracy must be reported by mail to the Registrar immediately. The work of the student is graded according to the following scale:

A	Outstanding	F	Failure
A-		WX	Approved Withdrawal
B+		N	Incomplete
B	Good	AU	Audit
B-			
C+			
C	Fair		

C- grade is not used by Graduate Studies Program or MBA Program.

The MBA Program does not offer an "audit" grade as an option for their students.

Courses taken as “audit” will not count towards any degree requirements in the Graduate Studies Program.

## **INCOMPLETE GRADES**

An incomplete grade (N) is given when a student is ill or is justifiably delayed in completing course work. Grades to replace N grades must be in the Registrar’s Office within 30 days of the session’s end. Unconverted N’s and NG’s become NF’s. Students must complete work to replace the N grade and a Grade Change must be received by the Registrar’s Office within 30 days of the session’s end. Without the approval of the student’s instructor, department chairperson and dean, no grade higher than C may replace an N. The end of session is the last scheduled class day.

## **TRANSCRIPTS**

Transcripts may be obtained by applying at the Office of the Registrar, Room 202, Tolentine Hall, either in person or by writing, through NOVASIS, or faxed to 610-519-4033. Telephone requests cannot be accepted.

Official transcripts bear the seal of the university and the Registrar’s signature. Those given to students bear a stamp indicating that the transcript has been issued to the student.

Students from other universities who wish to have their grades forwarded must also submit a written request to the Registrar’s Office.

Students may receive transcripts or certification of credits only when their financial accounts are completely paid.

## **STUDENTS’ RIGHTS TO THEIR RECORDS**

*Family Educational Rights and Privacy Act of 1974, Public Law 93-380*, as amended, provides that Villanova University students have: (1) the right to inspect their educational records that are maintained by Villanova University; (2) the right to a hearing to challenge the contents of those records when they allege the records contain misleading or inaccurate information; (3) the right to give their written consent prior to the release of their records to any person, agency, or organization other than University officials and certain authorized federal and state authorities. Information about specific procedures is available upon request from the Registrar’s Office.

Information concerning the following items about individual students is public and may be released by the Office of the Registrar without the student’s consent: full name, major field of study, dates of attendance, class year, degrees and awards received, most recent educational institution attended.

Students who do not wish such information to be released should inform the Registrar’s Office in writing at the time the information is originally sought from students.

## **POLICY AND REGULATIONS**

Adherence to University regulations, set forth in the University Catalog and Student Handbook (*The Blue Book*), is required for successful completion of a program of studies at Villanova. The University reserves the right, under appropriate procedures, to require the withdrawal of any student whose conduct is unsatisfactory.

## **VETERANS**

Veterans who are eligible to receive educational benefits must give their course information to the University Registrar after they register for Summer Sessions. The Registrar will submit certification of enrollment to the Veterans Administration. A veteran from another college or university must present a letter from the school, stating that the school will accept courses taken at Villanova. The Registrar will forward the letter and an enrollment certification to the Veterans Administration. Veterans attending college for the first time must complete the Veterans Administration form “Application for a Program of Education or Training” and submit the complete application to the Registrar. The Registrar will forward the formal course information and enrollment certification to the Veterans Administration.

## **NOVASIS**

All new students who have registered for courses are issued a NOVASIS PIN by the Office of the Registrar. The NOVASIS PIN allows students access to their account in the Villanova University Student Information System. NOVASIS is located on the web at <http://novasis.villanova.edu>. NOVASIS contains important information including class schedules, grades and transcripts. To access NOVASIS you can enter your Villanova email sign-in ID (for example: jstudent01, asmith), or your Villanova ID, which is an 8 character ID (for example: 18700000, or 00002222). You can also use your previous NOVASIS ID and 6 digit NOVASIS PIN.

# FACILITIES AND STUDENT SERVICES

## BOOKSTORE/UNIVERSITY SHOP

*Director:* Frank Henninger (610-519-4163)

The University Shop, located on the first floor of Kennedy Hall, is a complete university store, owned and operated by the University as a special service for its students, faculty and staff. In addition to course books, the shop offers school supplies, reference materials, personal items, Villanova emblematic gifts and sportswear.

The University Shop is open from 8:00 a.m. to 8:00 p.m. Monday through Thursday, 8:00 a.m.-5:00 p.m. on Friday and 10:00 a.m.-4:00 p.m. on Saturday. The University Shop will be closing at 1:00 p.m. on May 30, 2008 for annual inventory and closed on Memorial Day and Independence Day. Please phone or see signs at store entrance for details about these dates or check their web site at [www.ushop.villanova.edu](http://www.ushop.villanova.edu).

## CAMPUS MINISTRY

*Executive Director:* Dr. Beth Hassel, P.B.V.M. (610-519-4080)

Reflecting traditions of Roman Catholic and Augustinian spirituality, Campus Ministry at Villanova University engages every aspect of University life through prayer, liturgy, community service, leadership development, and pastoral care.

More specifically, Campus Ministry:

- offers programs centered on Christian living, social justice, liturgy, and preparation for the sacraments with an emphasis towards creating and eliciting Christian community on campus,
- works with all members of the Villanova community to build spiritual awareness and growth, and to initiate programs in response to the gospel values of the Catholic Christian tradition, and

- encourages the development of student leadership as a priority reflecting the student's significant role both now and for the future of the Church and society.

Location: Lower Level - St. Rita's Hall, 610-519-4080

Hours: M-F 9:00 a.m. to 5:00 p.m.

Website address: [www.campusministry.villanova.edu](http://www.campusministry.villanova.edu)

## LITURGICAL LIFE

Daily Eucharistic Liturgy-Session I

12:05 p.m. Monday - Friday - Corr Chapel

Daily Eucharistic Liturgy-Session II

12:05 p.m. Monday - Friday - Corr Chapel

Saturdays

5:00 p.m. - St. Thomas of Villanova, Rosemont (610-525-4081)

Sundays

7:30 a.m. - St. Thomas of Villanova Church

10:30 a.m. - St. Thomas of Villanova Church

8:00 p.m. - St. Thomas of Villanova Church

## CAREER SERVICES

*Director:* Nancy Dudak (610-519-4060)

Full-time and part-time jobs are listed on the Center's website (<http://careers.villanova.edu>), which also has a career resource library. Career counseling and a credentialing service are available for matriculated students. The Career Services office is located in Corr Hall and is open from 9 a.m. to 5 p.m., Monday through Friday.

## CONNELLY CENTER

*Director:* Anthony Alfano (610-519-7270)

The spacious Connelly Center provides a variety of facilities and services to Villanova faculty, students, staff, and alumni. The Center houses an information desk, meeting rooms, cinema, cyber lounge, art gallery and a number of lounges for studying and relaxation. Dining services offer a wide variety of foods including complete breakfasts, lunches and dinners in the Belle Air

Terrace and snacks in the Ice Cream Shoppe. The Connelly Center also has an electronic banking machine, as well as a video rental store.

A schedule of the Center's hours is posted at the information desk.

## COUNSELING CENTER

*Director:* Joan G. Whitney, Ph.D. (610-519-4050)

*Associate Director:* Norman Pitt, Ph.D. (610-519-4050)

The Counseling Center is located in the Health Services Building (across from Bartley Hall), Room 206. Psychologists are available daily to discuss personal, emotional or psychological concerns with students, in a confidential setting, and to provide referral for longer-term counseling.

The Counseling Center is open 9 a.m. to 5 p.m. Monday through Thursday and 9:00 a.m. to 4:00 p.m. on Friday, and is available to undergraduate and graduate students. Please call the Center for further information.

## DINING SERVICES

*Directors:* Michael McGuckin (610-519-6185)

Anthony Alfano (610-519-7270)

Breakfast, Lunch and Dinner will be served in Dougherty Hall, Monday through Friday. Brunch and Dinner will be served on Saturday and Sunday (exceptions will be posted on our web site). Our Dining Hall features an All-You-Care-To-Eat Buffet for all three meals. At lunch and dinner, deli sandwiches, steak sandwiches, pizza, salad bar, pasta and a variety of hot entrees are offered. Cash and WILDCARD are accepted in addition to meal plans.

**A la carte** dining service will also be available in the following locations.

- **CONNELLY CENTER**
  - The Belle Air Terrace
  - Holy Grounds
  - Ice Cream Shoppe
- **St. Mary's**
  - Second Storey Convenience Store
- **St. Augustine Center**
  - St. Augustine Café
- **Bartley Hall**
  - The Exchange

Guests of the University are encouraged to dine in Dougherty Hall or any **A la carte** locations listed above. Cash and WILDCARD are accepted at these locations. Please refer to our web site [www.diningservices.villanova.edu](http://www.diningservices.villanova.edu) for complete listing of hours and services provided.

## HEALTH SERVICES

*Director:* Mary McGonigle, D.O. (610-519-4070)

*Medical Director:* Brian Bullock, M.D.

The Student Health Center is located on the third floor of the Health Services Building. During the summer session, the Health Center is open from 8:00 a.m. until 4:00 p.m. Monday through Friday. The Health Center is closed for lunch from 12:00 p.m. to 1:00 p.m. during these summer hours. Appointments are strongly encouraged. Appointments for allergy injections are required and injections are given only when the physician is present. Medications and laboratory studies are the financial responsibility of the student. If medically necessary, emergency care and inpatient hospital care are available at local hospitals.

## HOUSING

*Assistant Director for Housing Services:* Marie Schauder

*Contact Information:* (610-519-4150) or [marie.schauder@villanova.edu](mailto:marie.schauder@villanova.edu)

## ON-CAMPUS HOUSING

Villanova University offers on-campus housing for both men and women during the Summer Sessions. Facilities include standard double rooms. Students must provide their own linens, pillows, pillow cases, towels and blankets. A small desk lamp should also accompany

each student. Rooms in St. Monica and Katharine Halls are air-conditioned. Every effort will be made to honor all housing requests.

Meals are served daily in Dougherty Hall dining facility. There is no separation of room and board fees. Every student must have a valid WildCard (Villanova University ID card). For those individuals new to the institution, the WildCard office will be available during registration hours.

- Session I: Check-in time is Tuesday, May 27, 12 noon - 8 PM.  
Check-out is Wednesday, June 25 by 4 PM.
- Session II: Check-in time is Thursday, June 26, 12 noon - 5 PM.  
Check-out is Tuesday, July 29, by 4 PM.
- Session III: Check-in time is Tuesday, May 27, 12 noon - 8 PM.  
Check-out is Tuesday, July 29, by 4 PM.

### OFF-CAMPUS HOUSING

Students desiring additional roommates, and landlords with rooms, apartments, or houses for rent advertise through the Office for Residence Life on a voluntary basis. The Office for Residence Life does not inspect or otherwise endorse these listings, but will assist students with their search for off-campus housing. Please refer to our website for assistance: <http://www.reslife.villanova.edu/offcampus/offcampus.htm>.

### ROOM AND BOARD CHARGES: Summer Sessions Only

Sessions I or II	
Double Occupancy (four week session) . . . . .	\$1,175
Session III	
Double Occupancy (eight week session) . . . . .	\$2,350

### ADVISOR TO STUDENTS WITH DISABILITIES

*Advisor:* Stephen McWilliams, M.A. (610-519-4095)

The Office for Human Services provides support and assistance for students with physical disabilities and to ensure Villanova University's compliance with the Americans with Disabilities Act. The office provides reasonable accommodations for students with special needs. To receive assistance, students must provide documentation about their disability to our office. We ask students to register with us at the beginning of each semester. Our office is located in the Connelly Center on the 2nd floor. Additional information can be found on the Villanova website.

### LIBRARY

*University Librarian:* Mr. Joseph Lucia, M.L.S. (610-519-4290)

The Falvey Memorial Library is Villanova's gateway to print and electronic information resources and services. Its more than 750,000 volumes, 5,500 current serial subscriptions, approximately 200 electronic indexes, full-text electronic journals and extensive microfilm and audiovisual collections support the informational and research needs of the Villanova community. The Falvey Library homepage on the World Wide Web provides access to many services and resources as well as describing policies and procedures of the library. The Falvey homepage is accessible at: <http://www.vill.edu/library>.

A friendly, knowledgeable staff provides reference, interlibrary loan, instructional media, circulation, reserve materials, cataloging and acquisition services. Reference librarians answer specific questions, suggest appropriate sources, assist in the formulation of search strategies, and offer instruction in the use of electronic resources. Interlibrary Loan makes available the resources of libraries throughout the country. Instructional Media Services offers viewing and listening stations for films, CDs, tapes, as well as transparency, lettering and production services.

A current University ID is needed to borrow library materials. Anyone entering the library without a Villanova ID is required to sign in and to present a drivers license or other form of ID. Possessions may be inspected upon leaving the library. Entering implies consent that this inspection may occur.

The library is a smoke-free building. Food and drink policies are posted throughout the building. Theft and mutilation of materials is a violation of the Code of Student Conduct and subjects one to sanctions.

Inquire at the Information Desk for more specific information about library use, library services and the collection.

**LIBRARY HOURS:**

**Session I**

Monday-Thursday	8 a.m.-10 p.m.
Friday	8 a.m.-5 p.m.
Saturday	10 a.m.-4 p.m.
Sunday	Closed

**Session II**

Sunday	Noon-8 p.m.
Monday-Thursday	8 a.m.-10 p.m.
Friday	8 a.m.-5 p.m.
Saturday	10 a.m.-4 p.m.
July 4 (Independence Day)	Closed

Hours differ during vacation periods and final exams. For current hours call 610-519-4292. To reach the Circulation Desk, please call 610-519-4270.

**MAIL**

Every resident desiring to receive mail at the University must have a mail box. Boxes may be obtained at the Student Post Office on the lower level of Kennedy Hall. There is no charge for this service. Students must remove all mail from their mail boxes prior to departing at the end of Summer Sessions. Please complete change of address form (upon receipt of V.U. Box) to ensure proper forwarding of mail after completion of Summer Sessions.

Please be aware that to ensure all summer mail is received by the correct addressee, the Villanova Box Number must be present on the mail piece.

**PARKING/EMERGENCIES/CRIME REPORTING**

Students attending Summer Sessions (unless already in possession of a permit expiring on August 31st) will be required to purchase a permit to park on the Main Lot or Spring Mill Lot. Permits will expire at the end of the appropriate session (Summer Session I, II, III or MBA). The Parking Office will issue permits for both Summer Sessions if appropriate.

To register for parking visit our website at:  
<http://publicsafety.villanova.edu/parking.html>

Permits are available for pick-up in Farrell Hall - Monday through Friday - 8:00 a.m. to 4:00 p.m. Evening students may contact the Parking Office at 610-519-6990 to request to have their parking permit left with the Public Safety Dispatcher who is available 24/7.

All crimes, accidents, or medical emergencies should be immediately reported to the Department of Public Safety. To contact Public Safety in the event of an emergency dial 9-4444 when using University phones. Note: 610-519-4444 can be used to call our emergency phone number when using non-University phones. All non-emergency calls should be directed to 610-519-6979. For further information concerning services provided by the Department of Public Safety, please visit our web site at <http://publicsafety.villanova.edu>.



# DEPARTMENTAL OFFERINGS

## SUMMER SESSION DATES

MBA Session (001)\* . . . . . May 19-July 17, 2008  
Session I (010)\* . . . . . May 28-June 25, 2008  
Session II (020)\* . . . . . June 27-July 28, 2008  
Evening Session (030)\* . . . . . May 28-July 28, 2008

\*Session numbers are listed after the course numbers.

## COURSE NUMBERING

0001-6999 Undergraduate courses.  
7000-7999 Graduate courses to which qualified undergraduate students may be admitted with the permission of the department chairman.  
8000-9999 Graduate courses limited to graduate students.

## EXPLANATION OF ROOM ABBREVIATIONS

Classroom locations are listed immediately following the instructor's name for each section. Letters preceding the room numbers indicate the name of the building according to the following code:

B . . . . . Bartley Hall  
C . . . . . Corr Hall  
CH . . . . . Chemical Engineering Building  
CEER . . . . . Center for Engineering and Education Research  
JLH . . . . . Jenkins Lecture Hall, Mendel  
F . . . . . Falvey Library  
G . . . . . Garey Hall  
JB . . . . . John Barry Hall  
MSC . . . . . Mendel Science Center  
GLH . . . . . Gallen Lecture Hall  
SA . . . . . St. Augustine Center for the Liberal Arts  
SM . . . . . St. Mary Hall  
STH . . . . . St. Thomas Hall  
T . . . . . Tolentine Hall  
V . . . . . Vasey hall  
W . . . . . White Hall  
TBA . . . . . To be arranged

In completing the registration form, please include the entire Course Identification Number. This includes the CRN number, subject, course number and section number. For example:

<u>CRN</u>	<u>SUBJ</u>	<u>COURSE</u>	<u>SECTION</u>
11146	ACC	1101	010

would be the required information to register for Principles of Financial Accounting in the first summer session.

**All summer courses are offered contingent on enrollment, and the University reserves the right to cancel any class.**

## ACCOUNTANCY AND MANAGEMENT INFORMATION SYSTEMS

Mr. O'Mara, *Chair*  
Office: 3019 Bartley  
Phone: 610-519-4340

### Principles of Financial Accounting

11146 ACC-1101-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* 3 cr. Staff B3042

11147 ACC-1101-030 (5/28-7/28) *MW 6:00-8:00 p.m.* Staff B3069

Understanding business by being able to understand the financial statements. Accounting concepts, transaction analysis, analytical procedures, valuation and allocation, revenue recognition and expense matching, and cash flow analysis—operating, investing, and financing. Includes appropriate use of technology.

**11148 ACC-1101-035 (5/28-7/28)**

**Dr. Derstine**

**11149 ACC-1101-036 (5/28-7/28)**

**Dr. Derstine**

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### Principles of Managerial Accounting

11150 ACC-1102-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.* 3 cr. Staff B3042

11151 ACC-1102-030 (5/28-7/28) *TTh 6:00-8:00 p.m.* Staff B3042

How management accounting information can be used to help firms achieve strategic goals and profitability objectives. Use of an entrepreneurial perspective to examine how managers apply risk measurement and management techniques to business planning and control systems. Case-based learning to help students develop communication, technology, and teamwork. Prerequisite: ACC 1101 or HON 1101.

**11152 ACC-1102-035 (5/28-7/28)**

**Dr. Licata**

**This is a Distance Learning section of this course. Please see page 75 for more information.**

### Intermediate Accounting II

11153 ACC-2320-030 (5/28-7/28) *TTh 3:30-5:30 p.m.* 3 cr. Mr. Dougherty B3041

Continues the intensive study and application of GAAP for asset valuation, income measurement, and financial statement presentation begun in ACC 2310. Selected accounting and consulting issues. Correction of financial statements, income taxes, pensions, segment reporting, cash-flow disclosures, debt issuance and amortization, leases, and investments. Writing Enhanced. Prerequisite: ACC 2310.

### Accounting Information Systems

**11154 ACC-2340-035 (5/28-7/28)** 3 cr. **Dr. Borden**

**11155 ACC-2340-036 (5/28-7/28)** **Dr. Borden**

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### Auditing

11156 ACC-2430-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* 3 cr. Dr. Bierstaker B3069

Auditing standards employed in verification of and reporting on financial statements, evaluation of controls, statistical sampling, substantive testing, legal liability and professional responsibilities, and professional standards of ethics. Includes written and oral group case assignments and application of computer technology. Restricted to Accounting Majors and Minors. Prerequisite: ACC 2310.

### Federal Income Tax

11157 ACC-2460-030 (5/28-7/28) *MW 6:00-8:00 p.m.* 3 cr. Staff B3070

An introduction to federal income taxation with primary emphasis on the tax implications of business transactions. Objectives of the course are to explore tax-policy issues and to develop a basic understanding of federal income tax laws, income tax planning, and the

impact of taxes on business decisions. Restricted to Accounting Majors and Minors with Junior or Senior standing. Prerequisite: ACC 1101 or HON 1101.

### **Accounting Internship**

11159 ACC-3430-030 (5/28-7/28) TBA

Employment with approved accounting firms and business organizations; varied work experience with appropriate training, instruction, and supervision. Paper required. Restricted to Accounting majors and minors with Junior or Senior standing, a minimum GPA of 2.5, and approval of the Accounting Internship Director. Satisfactory/Unsatisfactory only.

3 cr.

Dr. Emig

### **Independent Study: Accounting**

11160 ACC-3500-030 (5/28-7/28) TBA

Prior approval by Department Chairperson and sponsoring faculty member is required.

3 cr.

Mr. O'Mara

### **Introduction to MIS**

11136 MIS-1006-015 (5/28-6/25)

11137 MIS-1006-016 (5/28-6/25)

**These are Distance Learning sections of this course. Please see page 75 for more information.**

3 cr.

Dr. Wagner

Dr. Wagner

### **Business Data Communications**

11138 MIS-3010-010 (5/28-6/25) M 6:00-8:00 p.m.

Introduction of the fundamental concepts and terminology of data communications and networking with respect to technical and managerial aspects including: the fundamentals of telecommunication media and services, topologies and protocols in local area networks (LAN) and wide area networks (WAN), the Internet technologies (IP addressing and subnetting), Intranet/extranet applications (VPN and other encryption technologies), new trends and enabling technologies in data communications industry. Prerequisite: MIS 2030.

3 cr.

Dr. Chung B1064

**This course is 50% Distance Learning. Restricted to students in Part-Time Studies.**

## **ART HISTORY**

Dr. Gallicchio, *Chair*

Office: 403 St. Augustine

Phone: 610-519-4660

### **Internship Elective**

11181 AAH-1903-030 (5/28-7/28) TBA

An internship in an elective area of concentration.

3 cr.

Dr. Sullivan

### **Internship**

11182 AAH-2993-030 (5/28-7/28) TBA

Permission of chairperson required.

3 cr.

Dr. Sullivan

### **Art of Philadelphia**

11179 AAH-3002-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m.

Philadelphia's unique contribution to American painting, sculpture, and architecture, from the early Swedish and Welsh settlers of the Delaware Valley, to Andrew Wyeth and Robert Venturi. Fine Arts.

3 cr.

Dr. Sullivan F105

### **Topic: Art and Architecture of Ancient Egypt**

11180 AAH-3020-020 (6/27-7/28) MTWThF 2:30-4:20 p.m.

This course will explore the themes, symbolism and inspiration of ancient Egyptian art beginning with the formation of the Egyptian state until the arrival of Alexander the Great in 332 BC. A group of specialized craftsmen emerged near the end of the 4th millennium BC to satisfy the needs of an early influential class from Upper Egypt. These specialists fashioned an elite tradition on a vast scale at an early age. The Egyptians maintained this unique tradition for thousands of years with little change. One exception to this is Akhenaten and the "Amarna Revolution" to which special attention will be paid. Additionally, this course will explore the development of the tomb, city planning, and monumental architecture. It is

3 cr.

Dr. Diamond-Reed F105

through the analysis of this material assemblage that Egyptologists can reconstruct history. This study of the art and architecture will be accompanied by a survey of ancient Egyptian history. This course will include several quizzes, a midterm and a final exam.

### **Independent Research**

11183 AAH-5515-030 (5/28-7/28) *TBA*

An intensive research project under individual direction. Permission of chairperson required. Restricted to AAH majors.

3 cr.  
Staff

## **ASTRONOMY AND ASTROPHYSICS**

Dr. McCook, *Chair*  
Office: 457 Mendel  
Phone: 610-519-4820

### **Birth and Death of Stars**

11188 AST-1072-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

3 cr.  
Mr. DeWarf M341

A study of the life cycles of the stars from their birth in dark, dense interstellar dust clouds to their deaths in nature's most violent cataclysms with a focus on stars and humanity, the formation of the chemical elements, the effects of nearby supernovae, the future of the Sun and the ultimate fate of Earth, and the question of planetary systems around other stars. Corequisite for Arts students: AST 1073.

### **Stellar Lab**

11189 AST-1073-010 (5/28-6/25) *MWTh 1:30-3:30 p.m.*

1 cr.  
Mr. DeWarf M241

Laboratory focuses on stellar and galactic problems. Corequisite: AST 1072, 2122 or 2120.

### **Planets**

11190 AST-1074-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.*

3 cr.  
Staff M341

The surfaces and atmospheres of other worlds and how they compare to Earth with a focus on the physical processes which mold their landscapes and both generate and modify their gaseous atmospheres. The geology and meteorology of planets and their moons; the role of destructive collisions versus accretion and re-compaction. The effects of collisions with asteroids and comets, their role in mass extinctions, and in the possible formation of atmospheres and oceans; the search for planets and life in our solar system and beyond. Corequisite for Arts students: AST 1075.

### **Planets Lab**

11191 AST-1075-020 (6/27-7/28) *MWTh 1:30-3:30 p.m.*

1 cr.  
Staff M241

A continuation of Astronomy Lab I that focuses on planetary and solar system problems. Corequisite: AST 1074 or AST 2121.

## **AUGUSTINE AND CULTURE: THE VILLANOVA SEMINARS**

Dr. Doody, *Director*  
Office: 104 St. Augustine  
Phone: 610-519-7325

### **Traditions in Conversation**

11184 ACS-1000-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

3 cr.  
Staff F102

A Humanities seminar based principally on texts and readings drawn from primary sources up to 1650. Extensive written work and seminar discussions. Required readings: Hebrew and Christian scriptures, selections from the works of Augustine, Greek and Renaissance works. Readings from different genres and disciplines. Themes developed by the instructor in accordance with the selected readings. Writing Intensive.

### **Modernity and Its Discontents**

11185 ACS-1001-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

3 cr.  
Staff B027A

A Humanities seminar based principally on texts and readings drawn from primary sources 1650 to the present. Extensive written work and seminar discussions. Readings from each of the following five historical eras: Early Modern, Enlightenment, Romantic, Modernist,

Contemporary. Readings will also reflect different genres and disciplines. Themes developed by the instructor in accordance with the selected readings, including a specific Augustinian theme. Writing Intensive.

## BIOLOGY

Dr. Gardner, *Chair*  
Office: 152A Mendel  
Phone: 610-519-4830

### Human Anatomy and Physiology I

11192 BIO-1205-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* 4 cr.  
Dr. Russo MG92  
*MWF 10:30 a.m.-1:20 p.m.* M087

Basic concepts and laboratory studies of anatomy and physiology with presentation of overall morphology and function of the integumentary, skeletal, muscular, nervous, and endocrine systems. Laboratory. Restricted to Nursing students; others require permission of instructor.

### Human Anatomy and Physiology II

11193 BIO-1206-020 (6/27-7/28) *MTMThF 8:30-10:20 a.m.* 4 cr.  
Dr. Olson MG92  
*MWF 10:30 a.m.-1:20 p.m.* M087

Continuation of BIO 1205. The structure and function of the blood, vascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Restricted to Nursing students; others require permission of instructor.

### Biology for Today

11194 BIO-1505-010 (5/28-6/25) *MTWThF 8:30-10.20 a.m.* 4 cr.  
Mr. Chubb M213  
*MWTh 10:30 a.m.-1:20 p.m.* M181

Biology of cells, comparative animal physiology, genetics, reproduction and development, evolutionary biology and ecology. Experimental approaches used by biologists in problem solving. Writing assignments on the interpretation of science presented in the news media. Open to Arts sophomores.

### Heredity & Human Affairs

11195 BIO-1605-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* 4 cr.  
Mr. Bratis M341  
*MWF 10:30 a.m.-1:20 p.m.* M181

Genetic variation in humans and human populations including metabolic diseases, chromosomal aberrations and cancer. Genetic aspects of biotechnology, biodiversity and environmental hazards. Open to Arts sophomores.

### Human Physiology-How Your Body Works

11196 BIO-1655-025 (6/27-7/28) 4 cr.  
Dr. Stephens  
11197 BIO-1655-035 (5/28-7/28) Dr. Stephens

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### General Biology I

11198 BIO-2105-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* 4 cr.  
Dr. Cordero M115  
*MWTh 10:30 a.m.-1:20 p.m.* M180

An introduction to biological organization stressing the molecular and cellular aspects of living organisms. The chemistry of life, the cell, the gene, and mechanisms of evolution.

### General Biology II

11199 BIO-2106-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* 4 cr.  
Dr. Balsamo M115  
*MWTh 10:30 a.m.-1:20 p.m.* M180

The origin of life and diversity of organisms seen in five biological kingdoms. Topics include nutrient acquisition, digestion, circulation, response to stimuli, movement, reproduction, behavior, and ecology. Prerequisite: BIO 2105 or HON 1075.

### Internship Program

11200 BIO-2993-030 (5/28-7/28) *TBA* 3 cr.  
Dr. Olson

Open to BIO and BSC majors. Sophomore, Junior, or Senior standing. Prerequisites: (BIO 2105 Concurrency: Yes or HON 1075 Concurrency: Yes) and (BIO 2106 Concurrency: Yes or HON 1706 Concurrency: Yes).

### **Internship Program**

11201 BIO-2996-030 (5/28-7/28) *TBA* 6 cr.  
Dr. Olson  
Open to BIO and BSC majors. Sophomore, Junior, or Senior standing. Prerequisites: (BIO 2105 Concurrency: Yes or HON 1705 Concurrency: Yes) and (BIO 2106 Concurrency: Yes or HON 1706 Concurrency: Yes).

### **Animal Behavior**

11202 BIO-3011-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* 3 cr.  
Dr. Curry M088  
Causation, development ecology, evolution of behavioral patterns, behavioral genetics neuroethology, communication, foraging territoriality, mating systems, parental behavior, social organization. Emphasis on ultimate explanations. Prerequisites: (BIO 2105 and BIO 2106) or (HON 1075 and HON 1076).

### **Animal Behavior Lab**

11203 BIO-3012-020 (6/27-7/28) *MWF 10:30 a.m.-1:20 p.m.* 1 cr.  
Dr. Curry M088  
Methods for observing behavior and for collection, statistical analysis and interpretation of behavioral data. Exercises in lab and field, discussion, and small-group independent research projects. Corequisite: BIO 3011. Prerequisites: (BIO 2105 and BIO 2106) or (HON 1075 and HON 1076).

### **BS/MS Independent Study**

11204 BIO-6401-010 (5/28-6/25) *TBA* 1 cr.  
Dr. Olson  
Supervised laboratory/field research.

### **BS/MS Independent Study**

11205 BIO-6402-020 (6/27-7/28) *TBA* 1 cr.  
Dr. Olson  
Supervised laboratory/field research.

### **Directed Research**

11206 BIO-6509-030 (5/28-7/28) *TBA* 2 cr.  
Dr. Olson  
Library &/or laboratory research under student-selected Biology faculty member (can lead to thesis research.) Sem 1&2. Prerequisite: permission of faculty mentor & instructor; 3.0 QPA. Restricted to junior or senior Biology & BSC majors. Does not count for biology laboratory credit alone. Prerequisites: (BIO 2105 or HON 1075) and (BIO 2106 or HON 1076).

## **GRADUATE COURSES**

### **Special Topic: Plant Responses and Adaptations to Extreme Environments**

11207 BIO-7940-030 (5/28-7/28) *TTh 5:30-6:55 p.m.* 2 cr.  
Dr. Balsamo M115  
This seminar course will use current literature to discuss plant acclimations and adaptations to stress. A survey of the various disciplines from the molecular to whole plant would be undertaken to obtain a broad perspective of the field of plant stress physiology.

### **Directed Research I**

11208 BIO-9007-010 (5/28-6/25) *TBA* 2 cr.  
Dr. Olson  
11209 BIO-9007-020 (6/27-7/28) *TBA* Dr. Olson  
11210 BIO-9007-030 (5/28-7/28) *TBA* Dr. Olson  
Laboratory work and conferences dealing with a selected research problem. Prerequisite: Consent of chairperson.

### **Directed Research II**

11211 BIO-9008-010 (5/28-6/25) *TBA* 2 cr.  
Dr. Olson  
11212 BIO-9008-020 (6/27-7/28) *TBA* Dr. Olson  
11213 BIO-9008-030 (5/28-7/28) *TBA* Dr. Olson  
Laboratory work and conferences dealing with a selected research problem. Prerequisite: Consent of chairperson.

<b>Thesis Continuation</b>	2 cr.
11214 BIO-9080-030 (5/28-7/28) TBA	Dr. Olson
<b>Thesis Research I</b>	2 cr.
11215 BIO-9307-010 (5/28-6/25) TBA	Dr. Olson
11216 BIO-9307-020 (6/27-7/28) TBA	Dr. Olson
11217 BIO-9307-030 (5/28-7/28) TBA	Dr. Olson
<b>Thesis Research II</b>	3 cr.
11218 BIO-9308-010 (5/28-6/25) TBA	Dr. Olson
11219 BIO-9308-020 (6/27-7/28) TBA	Dr. Olson
11220 BIO-9308-030 (5/28-7/28) TBA	Dr. Olson
<b>Thesis Research III</b>	5 cr.
11221 BIO-9309-010 (5/28-6/25) TBA	Dr. Olson
11222 BIO-9309-020 (6/27-7/28) TBA	Dr. Olson
11223 BIO-9309-030 (5/28-7/28) TBA	Dr. Olson

## MASTERS OF BUSINESS ADMINISTRATION

Ms. Pollard, *Assistant Dean*  
Office: 1054 Bartley  
Phone: 610-519-4336

**The following courses are restricted to those students  
who have been admitted into the Villanova MBA program.**

### ACCOUNTANCY

**Accounting Information and Decision Making** 3 cr.  
11127 MBA-8101-001 (5/19-7/17) TTh 6:00-9:00 p.m. Staff B3040  
Explores the role of accounting in modern business enterprises through the corporate approach. Topics include: components of financial statements, periodic determination of income and financial position, and presentation of financial information to external users.

**Management Accounting** 3 cr.  
11128 MBA-8110-001 (5/19-7/17) TTh 6:00-9:00 p.m. Dr. Licata B2074  
Introduces cost accounting systems and how such systems can be used internally by managers to support planning, control, and decision making with particular emphasis on Activity-Based Costing (ABC) and Activity-Based Management (ABM) principles. Cases and group projects generally required. Prerequisite: MBA 8101 or ACC 8100.  
**11128 MBA-8110-001 is 100% Distance Learning.**

**Telecommunications Management** 3 cr.  
11129 MBA-8553-001 (5/19-7/17) TTh 6:00-9:00 p.m. Dr. Chung B3001  
The main focus of the course will be on the use of data communication technologies to support the effective and efficient management of information in an organization. Topics will include; the different competing data telecommunications architectures and protocols, an overview of different network topologies and technologies such as LAN, WAN, intranets, and Value-added networks. Must be enrolled on one of the following levels: Graduate Nursing or Law School Graduate Business.

**E-Business** 3 cr.  
11130 MBA-8555-001 (5/19-7/17) MW 6:00-9:00 p.m. Dr. Luo B3010  
11131 MBA-8555-002 (5/19-7/17) TTh 6:00-9:00 p.m. Dr. Sloane B3010  
Provides an awareness and understanding of the relevant issues, advantages and disadvantages, and specific techniques involved in using electronic commerce to assist in the production, coordination, marketing, and delivery of goods and services. Explores how electronic commerce can support the development, manufacturing, and marketing of goods and services, and how the different facets of electronic commerce can be used to support business practices.  
**11130 MBA-8555-001 is 50% Distance Learning.**

## DECISION AND INFORMATION TECHNOLOGIES

### Statistical Analysis

3 cr.

11431 MBA-8502-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*

Staff B3070

Descriptive and inferential statistics as applied to management problem solving and decision-making including descriptive statistics, probability theory, sampling, estimation, hypothesis testing, simple and multiple correlation and regression analysis, and time series. Prerequisite: Calculus.

### Operations and Supply Chain Management

3 cr.

11437 MBA-8503-001 (5/19-7/17) *MW 6:00-9:00 p.m.*

Dr. Chaudhry B1046

Provides an understanding of the complex process underlying the development and manufacture of product as well as the creation and delivery of services. Examines the concepts of operations management, operations technology, and the responsibilities of operation managers in the management of production systems, including problems and techniques of systems design, operation, and control. Prerequisite: MBA 8502 or ECO 8120.

**11437 MBA-8503-001 is 50 % Distance Learning.**

## ECONOMICS

### Economic Analysis

3 cr.

11429 MBA-8301-001 (5/19-7/17) *MW 6:00-9:00 p.m.*

Staff B1001

Covers the study of micro- and macro-economic tools of analysis. Topics include: the functioning of a market economy in the product and factor markets under alternative market structures, national income, fiscal policy, and the role of money supply and monetary policy.

### Economics of Strategy

3 cr.

11430 MBA-8310-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*

Staff B1010

Analyzes how economic reasoning can inform and develop useful insights for practicing managers, both with respect to the firm's external market environment and its internal organization. Emphasizes the importance of economic reasoning in making key strategic managerial decisions. Prerequisite: MBA 8301 or ECO 8110.

## FINANCE

### Corporate Finance

3 cr.

11432 MBA-8401-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*

Mr. Suprenuk B2073

Analyzes basic business problems and tools of financial decision making used by business firms. Topics include present value techniques, capital budgeting and cost of capital asset management, introduction to the theory of portfolio management, and capital asset pricing. Prerequisites: (MBA 8101 or ACC 8100) and (MBA 8502 or MBA 8701 or ECO 8120).

### Applied Corporate Finance

3 cr.

11433 MBA-8410-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*

Dr. Cochran B1064

Focuses on the application of theories and concepts of financial management to practical business problems and situations by means of case analysis and problem-solving techniques. Topics include valuation, risk and return relationships, working capital management, capital budgeting analysis, risk management, capital structure, and dividend policy. Prerequisite: MBA 8401 or FIN 8159).

### Equity Markets

3 cr.

11436 MBA-8433-001 (5/19-7/17) *MW 6:00-9:00 p.m.*

Mr. Huting B2001

This course presents an analysis of equity markets and an introduction to security analysis. Topics include asset allocation models, passive vs. active management strategies, fundamental analysis and technical analysis. A term project is required. Prerequisite: MBA 8410 or FIN 8220.

### Financial Markets and Institutions

3 cr.

11434 MBA-8437-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*

Mr. Mirman B2010

An introduction to structure and operation of domestic and international financial markets and institutions. Topics include an analysis of the flow of funds from savers to borrowers, risk-return tradeoff, market efficiency, asset-pricing models, theories of interest rates, and term structure of interest rates. A research paper is generally required. Prerequisite: MBA 8410.



**Independent Study: Finance**11435 MBA-8490-001 (5/19-7/17) *TBA*

3 cr.  
Dr. Shaffer  
Students may not register for this course on the WEB; written permission of Graduate Director required.

**MANAGEMENT****Leadership and Team Building**11438 MBA-8510-001 (5/19-7/17) *MW 6:00-9:00 p.m.*3 cr.  
Dr. Arvanites B1010

Focuses on the behavioral dimension of managerial action and decision making. Emphasizing the dynamics and challenges of developing high performance teams and providing effective leadership. Topics include: business ethics, demographic diversity, motivation, communication, performance evaluation, conflict management, organizational change, and organizational learning in the global business environment. Prerequisite: Completion of the basic core.

**International Business Management**11440 MBA-8530-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*3 cr.  
Dr. P. Chaudhry B204611441 MBA-8530-002 (5/19-7/17) *MW 6:00-9:00 p.m.*

Dr. P. Chaudhry B2074

This course provides an overview of economic and cultural integration, trade problems, and tariff barriers to highlight the conflicts and compromises between the executive policies and national objectives of various countries. Emphasis is on the development of marketing strategies and the problems concerning overseas investment and financing. Prerequisite: MBA 8510.

**These two sections of this course are 50% Distance Learning.****Strategic Management**11442 MBA-8900-001 (5/19-7/17) *TTh 6:00-9:00 p.m.*3 cr.  
Staff B2045

Provides an executive perspective to develop an understanding of strategy research and practices. Emphasizes ways to formulate, implement, and control the strategic direction of a stakeholder-responsive organization within competitive markets and a global economy. Prerequisite: Must be taken in last semester. Registration for this course must be processed by the MBA office.

**MARKETING****Decisions in Marketing**11426 MBA-8601-001 (5/19-7/17) *MW 6:00-9:00 p.m.*3 cr.  
Dr. Capella B036

Examines the philosophy of marketing and the managerial functions of marketing as an intergrated business discipline designed to responsibly achieve an organization's goals within the constraints of society's objectives. Explores various environments, both domestic and international, within which marketing must operate.

**Management and Marketing of Services**11427 MBA-8643-001 (5/19-7/17) *MW 6:00-9:00 p.m.*3 cr.  
Mr. Martin B2010

This course provides an analysis of the differences between marketing of goods and services in order to establish an effective marketing orientation that is tailored to the uniqueness of services; emphasis is placed on strategic management issues for the marketing of services. Prerequisite: MBA 8610.

**CHEMICAL ENGINEERING**Dr. Weinstein, *Chair*

Office: 215 White

Phone: 610-519-4950

**Industrial Waste Management**11737 CHE-8591-030 (5/28-7/28) *M 6:00-9:30 p.m.*3 cr.  
Dr. Punzi W120

Analysis of industrial waste disposal: sources of industrial wastes, disposal using physical, chemical and biological processes, overview of governmental regulations to prevent pollution. First class meeting will be held on Wednesday (5/28/08).

### **Independent Study Continuation**

11244 CHE-9085-030 (5/28-7/28) TBA

0 cr.

Dr. Weinstein

## **CHEMISTRY**

Dr. Kassel, *Chair*

Office: 215 Mendel

Phone: 610-519-4840

The Department of Chemistry offers major undergraduate courses in general, organic and physical chemistry as well as biochemistry. These courses are coordinated with laboratories that reinforce the lecture material. Students can complete the requirements for a chemistry minor with the courses offered in the Summer Sessions.

### **General Chemistry Laboratory I**

11245 CHM-1103-010 (5/28-6/25) *TWTh 10:50 a.m.-1:40 p.m.*

1 cr.

Staff M392

Qualitative and quantitative laboratory experiments which include: the reactions of metals with water; the collection and plotting of data; acid-base titrations; oxidation-reduction titrations; the use of the pH meter and the determination of acid-base titration curves; the use of the spectrophotometer. Corequisite: CHM 1131 or CHM 1151.

### **General Chemistry Laboratory II**

11246 CHM-1104-020 (6/27-7/28) *TWTh 10:40 a.m.-1:30 p.m.*

1 cr.

Staff M392

Students will be required to identify all metal ions present in an unknown solution. Quantitative titrations of sodium carbonate and the total hardness of water. Synthesis of inorganic compounds and determination of the formula of a transition metal complex ion using spectroscopic methods. Prerequisite: CHM1103. Corequisite: CHM 1152.

### **General Chemistry Laboratory II**

11247 CHM-1108-020 (6/27-7/28) *TWTh 10:40 a.m.-1:30 p.m.*

1 cr.

Staff M384

Chemistry of organic and biochemical compounds with an emphasis on the identification and chemical reactivities of functional groups. Students will be required to separate and identify various organic and biochemical compounds. Open to health affiliation students. Prerequisite: CHM 1131 or CHM 1151. Corequisite: CHM 1134.

### **General Chemistry I**

11248 CHM-1131-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.*

3 cr.

Staff M260

Fundamental laws and theories of chemistry: atomic theory, chemical bonding, chemical kinetics and chemical equilibrium, gases, liquids, solids, solutions, stoichiometry, acid-base theories, electrochemical concepts, and an introduction to nuclear chemistry will be included. Open to health affiliation students. Corequisite: CHM 1103.

### **General Chemistry II**

11249 CHM-1134-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.*

3 cr.

Staff MG13

Introduction to organic and biochemistry stressing the application of principles developed in CHM 1131. Open to health affiliation students. Prerequisites: CHM 1131 and CHM 1103. Corequisite: CHM 1108.

### **General Chemistry I**

11250 CHM-1151-010 (5/28-6/25) *MTWThF 8:00-10:20 a.m.*

4 cr.

Staff M256

Basic concepts of chemistry covering the following topics: properties of bulk matter; stoichiometry; colligative properties of solutions; thermochemistry; redox reactions; equilibrium and kinetics. For science and engineering students. Corequisite: CHM 1103.

## General Chemistry II

4 cr.

11251 CHM-1152-020 (6/27-7/28) *MTWThF 8:00-10:20 a.m.*

Staff M154

Descriptive presentation of atomic orbitals; molecular structure; chemical and physical trends in the periodic table; general descriptive chemistry of the elements; complex ions and factors that drive chemical reactions. For science and engineering students. Prerequisite: CHM 1151. Corequisite: CHM 1104.

## Organic Chemistry Laboratory I

1cr.

11252 CHM-2201-010 (5/28-6/25) *MW 12:45-5:00 p.m.*

Staff M385

11253 CHM-2201-011 (5/28-6/25) *MW 12:45-5:00 p.m.*

Staff M206

11254 CHM-2201-030 (5/28-7/28) *W 6:00-10:00 p.m.*

Staff M385

Practical experience in techniques used for separation, purification, and isolation of synthetic, as well as naturally occurring organic compounds. Semi-micro and micro scale experiments. Crystallization, distillation, extraction, and chromatography are introduced. Corequisite: CHM 2211.

## Organic Chemistry Laboratory II

1cr.

11255 CHM-2202-020 (6/27-7/28) *MW 12:45-5:00 p.m.*

Staff M385

11256 CHM-2202-021 (6/27-7/28) *MW 12:45-5:00 p.m.*

Staff M206

11257 CHM-2202-030 (5/28-7/28) *W 6:00-10:00 p.m.*

Staff M393

Further training in laboratory techniques used in organic chemistry, including those introduced in CHM 2201, and utilization of such techniques in representative types of organic reactions. Semi-micro and micro scale experiments. Prerequisite: CHM 2211. Corequisite: CHM 2212.

## Organic Chemistry I

3 cr.

11258 CHM-2211-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Staff M256

11259 CHM-2211-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

Staff M231

Fundamental principles of organic chemistry stressing the relation of structure and reactivity. Structure and bonding; stereochemistry; acids and bases; electrophilic addition, elimination and nucleophilic substitution. Prerequisites: CHM 1151 and CHM 1152. Corequisite: CHM 2201.

## Organic Chemistry II

3 cr.

11260 CHM-2212-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.*

Staff M213

11261 CHM-2212-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

Staff MG87

Continuation of CHM 2211. Carbonyl group reactions, aromatic chemistry, spectroscopy and special topics such as heterocycles, carbohydrates and nucleosides, amino acids and proteins, lipids, radicals, rearrangements, polymers and photochemistry. Prerequisites: CHM 2211 and CHM 2201. Corequisite: CHM 2202.

## Internship

3 cr.

11262 CHM-2993-030 (5/28-7/28) *TBA*

Dr. Kassel

## Survey of Biochemistry

3 cr.

11263 CHM-4611-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.*

Staff M213

Basic areas of biochemistry; carbohydrates, lipids, proteins, nucleic acids, enzymes, vitamins and hormones; consideration of their utilization and metabolism in living systems. Prerequisite: CHM 2212 or CHM 3212.

## Research I

3 cr.

11264 CHM-4801-010 (5/28-6/25) *TBA*

Dr. Kassel

Student participation in independent research under faculty supervision, frequent conferences with advisor or literature search, theoretical and experimental research. Writing Enriched.

## Research II

3 cr.

11265 CHM-4802-020 (6/27-7/28) *TBA*

Dr. Kassel

Continuation of CHM 4801. Writing Enriched.

## Research III

3 cr.

11266 CHM-4803-010 (5/28-6/25) *TBA*

Dr. Kassel

Continuation of CHM 4802. Writing Enriched.

## GRADUATE COURSES

### M.S. Research I, II and III

11267 CHM-7807-030 (5/28-7/28) TBA	3 cr.
11268 CHM-7808-030 (5/28-7/28) TBA	Dr. Kassel
11269 CHM-7809-030 (5/28-7/28) TBA	Dr. Kassel

### MS Thesis

11270 CHM-7810-030 (5/28-7/28) TBA	3 cr.
M.S. this research to be conducted in partial fulfillment of the M.S. degree in chemistry by those students who choose the thesis option. The research will be directed by a faculty member. Prerequisites: M.S. Research I, II, and III.	Dr. Kassel

### Graduate Seminar

11271 CHM-7892-030 (5/28-7/28) TBA	1 cr.
Presentation of M.S. thesis research, literature presentations by students, faculty research seminars.	Dr. Kassel

### Thesis Continuation

11272 CHM-9080-030 (5/28-7/28) TBA	0 cr.
	Dr. Kassel

## CIVIL AND ENVIRONMENTAL ENGINEERING

Dr. Chadderton, *Chair*  
Office: 139 Tolentine  
Phone: 610-519-4960

### Mechanics of Solids

11225 CEE-2103-030 (5/28-7/28) MW 5:50-8:00 p.m.	3 cr.
Stress resultants in bodies from tension, compression, shear, flexure, torsion and temperature stress and strain transformations; combined stresses; load deformation relationships; Euler buckling. Prerequisite: CEE 2104 or ME 2100.	Staff CEER205

### Mechanics: Statics and Dynamics

11226 CEE-2104-030 (5/27-7/24) TTh 5:50-8:30 p.m.	4 cr.
Force systems; equilibrium of particles and rigid bodies; analysis of simple structures; internal forces; friction; properties of areas and volumes; kinematic and kinetic analysis of particles. Prerequisites: MAT 1505 and PHY 2400.	Dr. Gross T309

## GRADUATE COURSES

### Lake, Stream and Wetland Ecology

11227 CEE-7010-030 (6/2-7/28) M 6:00-9:30 p.m.	3 cr.
Basic ecological principles. Food chains, trophic structure, biogeochemical cycles, and ecosystem dynamics. Water quality problems including nutrient enrichment, toxicity, and nonpoint source pollution. Watershed evaluation and management concepts, and TMDL.	Dr. Browne/Dr. Traver CEER312

### 11228 CEE-7010-D35 (6/2-7/28)

Dr. Browne/Dr. Traver

This is a Distance Learning section of this course. Please see page 75 for more information.

### Introduction to Hydraulic Engineering and Hydrology

11229 CEE-7111-030 (5/28-7/23) W 6:00-9:30 p.m.	3 cr.
Extension of fluid mechanics. Basic principles, mathematical concepts and solution methods, experimental data, and engineering judgment. Pressurized-flow systems, free surface flow, stream channel behavior and control, hydrologic data interpretation, hydrograph analysis and synthesis. Prerequisites: Undergraduate Fluid Mechanics (or its equivalent) and proficiency in computers.	Staff CEER312

**11230 CEE-7111-D35 (5/28-7/23)****Staff**

This is a Distance Learning section of this course. Please see page 75 for more information.

**Wood and Masonry Structures**

3 cr.

11234 CEE-7401-030 (6/2-7/28) M 6:00-9:30 p.m.

Dr. Gross TBA

Design and behavior of wood and masonry structures; introduction to design codes; material properties; structural members; connections; structural systems.

**11235 CEE-7401-D35 (6/2-7/28)****Dr. Gross**

This is a Distance Learning section of this course. Please see page 75 for more information.

**Introduction to Environmental Engineering Processes**

3 cr.

11231 CEE-7502-030 (5/27-7/22) T 6:00-9:30 p.m.

Staff CEER312

Fundamental physical, chemical, and biological principles and processes for water and wastewater treatment; chemical kinetics, reactor engineering, sedimentation, disinfection, filtration, and fixed film biological treatment. Prerequisites: Undergraduate fluid mechanics (or its equivalent) and two semesters of undergraduate chemistry.

**11232 CEE-7502-D35 (5/27-7/22)****Staff**

This is a Distance Learning section of this course. Please see page 75 for more information.

**Principles of Sustainable Development for Industry and Society**

3 cr.

11236 CEE-7829-030 (5/29-7/24) Th 6:00-9:30 p.m.

Mr. Radzinski CEER205

Investigation of problems with the present system of development and production, and evaluation of required steps to achieve sustainability will be conducted. Sustainability approaches such as green engineering and design, renewable energy systems, sustainable transportation, green building and low impact development techniques will be explored.

**Environmental Geology**

3 cr.

11233 CEE-8311-030 (5/27-7/22) T 6:00-9:30 p.m.

Dr. Glynn CEER205

The geological environment and the works of man; the geology of Pennsylvania and vicinity; interaction between geology and engineering work, the resulting problems and their solutions.

**River Mechanics and Engineering**

3 cr.

11237 CEE-8512-030 (5/29-7/24) Th 6:00-9:30 p.m.

Mr. Bellini/Mr. Szalay CEER312

Includes fluvial geomorphology, streambank stabilization, dam removal, in-stream habitat enhancement, sediment transport analysis, scour at bridges and culverts, design of scour countermeasures, design of naturally and structurally stable channel systems and design of energy dissipaters.

**11238 CEE-8512-D35 (5/29-7/24)****Mr. Bellini/Mr. Szalay**

This is a Distance Learning section of this course. Please see page 75 for more information.

**Special Topics Engineering**

3 cr.

11239 CEE-8601-030 (5/28-7/28) TBA

Dr. Chadderton

Individual supervised study. Topic and scope must be submitted in writing to topic advisor for approval prior to registration. Requirements must be completed by the end of its semester of registration.

**Civil & Environmental Engineering Research/Investigation**

3 cr.

11240 CEE-9030-030 (5/28-7/28) TBA

Dr. Chadderton

Topic and scope must be submitted in writing to topic advisor for approval prior to registration. The results of the course findings may provide the basis for the thesis option. The final written document at the completion of the semester will be submitted for approval as a thesis proposal or a term paper for grade. The thesis proposal must be agreed upon by both the

student and the topic advisor and approved by the chairperson. Requirements must be completed by the end of its semester of registration and prior to CEE 9031 registration. Prerequisite: Consent of chairperson.

**Thesis I** 3 cr.  
11241 CEE-9031-030 (5/28-7/28) TBA Dr. Chadderton  
Prerequisite: CEE 9030.

**Thesis II** 3 cr.  
11242 CEE-9032-030 (5/28-7/28) TBA Dr. Chadderton  
Prerequisite: CEE 9031.

**Thesis Continuation** 0 cr.  
11243 CEE-9080-030 (5/28-7/28) TBA Dr. Chadderton  
Restricted to graduate students.

### CLASSICAL STUDIES

Dr. Smith, *Director*  
Office: 304 St. Augustine  
Phone: 610-519-6165

**Introductory Latin** 3 cr.  
11482 LAT-1111-010 (6/1-6/30) MTWThF 9:00 a.m.-12:00 p.m. Staff SA410  
Basic forms, syntax and vocabulary; selected Latin prose in second semester.

**Introductory Latin II** 3 cr.  
11483 LAT-1112-020 (7/1-7/30) MTWThF 9:00 a.m.-12:00 p.m. Staff SA410  
Basic forms, syntax and vocabulary; selected Latin prose in second semester.

### GRADUATE COURSES

**Directed Readings** 3 cr.  
11484 LAT-8001-020 (6/27-7/28) TBA Dr. Hunt

### COMMUNICATION

Dr. Crable, *Chair*  
Office: 203 St. Augustine  
Phone: 610-519-4750

**Survey of Communication Studies** 3 cr.  
11310 COM-1000-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m. Dr. Moore SM016  
11311 COM-1000-020 (6/27-7/28) MTWThF 10:30 a.m.-12:20 p.m. Dr. O'Leary SM016  
Process of communication; range of perspectives from which communication can be studied (from classical rhetoric to contemporary theory); the functions communication serves; and the forms of communication such as interpersonal, small group, organizational, public address, and mass media.

**Public Speaking** 3 cr.  
11312 COM-1100-010 (5/28-6/25) MTWThF 1:30-3:20 p.m. Dr. Morus SM016  
11313 COM-1100-020 (6/27-7/28) MTWThF 8:30-10:20 a.m. Staff SM016  
Principles of communication related to speech composition and delivery; finding, analyzing, organizing and presenting material in ways appropriate to and effective with diverse audiences. Does not fulfill the Villanova School of Business requirement.

**Business and Professional Communication** 3 cr.  
11314 COM-1101-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m. Dr. Shyles SM015  
11315 COM-1101-011 (5/28-6/25) MTWThF 1:30-3:20 p.m. Mr. Hall SM015  
11316 COM-1101-030 (5/28-7/28) MW 6:00-8:00 p.m. Staff SM016

Communication strategies and skills for a variety of business professional settings. Combines public speaking and small group organizational communication, featuring individual and group presentations. Fulfills the Villanova School of Business requirement. Does not satisfy Communication Major Requirements.

**Communication Internship** 3 cr.  
11318 COM-1903-030 (5/28-7/28) TBA Dr. Moore  
Supervised work/study program in radio, television, advertising, publicity or public relations. Restricted to Communication Majors/Minors. Permission of Chairperson required.

**Communication Intership** 6 cr.  
11319 COM-1906-030 (5/28-7/28) TBA Dr. Moore  
Supervised work/study program in radio, television, advertising, publicity or public relations. Restricted to Communication Majors/Minors. Permission of Chairperson required.

**Communication Internship** 9 cr.  
11320 COM-1909-030 (5/28-7/28) TBA Dr. Moore  
Supervised work/study program in radio, television, advertising, publicity or public relations. Restricted to Communication Majors/Minors. Permission of Chairperson required.

**Theories of Persuasion** 3 cr.  
11321 COM-2280-015 (5/28-6/25) Mr. Arnold  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Theories of Visual Communication and Culture** 3 cr.  
11322 COM-2340-025 (6/27-7/28) Dr. Coonfield  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Communication Internship** 3 cr.  
11323 COM-2993-030 (5/28-7/28) TBA Dr. Crable  
Supervised work/study program in radio, television, advertising, publicity or public relations. Restricted to Communication Majors/Minors. Permission of Chairperson required.

**Communication Internship** 6 cr.  
11324 COM-2996-030 (5/28-7/28) TBA Dr. Crable  
More intensive, in depth work/study/program in radio, television, advertising, publicity or public relations. Restricted to Communication Majors/Minors. Permission of Chairperson required.

**Gender and Communication** 3 cr.  
11326 COM-3406-015 (5/28-6/25) Dr. Bowen  
11327 COM-3406-016 (5/28-6/25) Dr. Bowen  
These are Distance Learning sections of this course. Please see page 75 for more information.

**Public Relations** 3 cr.  
11328 COM-3460-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m. Ms. Flanagan F-EMedia  
Provides a foundation for students interested in the field of public relations. It chronicles the development of the profession from its earliest beginnings to its role in modern management. Also attempts to bridge the gap that exists between theory and practice. It achieves this by emphasizing the fundamental management perspective of the profession and the persuasive intent of message construction while highlighting the four essential skills required for success in the industry—research, writing, planning and problem solving. Writing and Rhetoric Concentration. Writing Enriched. Prerequisite: COM 2200 or COM 2280 or COM 2300 or COM 2440.

**Public Relations Writing** 3 cr.  
11329 COM-3462-010 (5/28-6/25) MTWThF 1:30-3:20 p.m. Ms. Flanagan F-EMedia

Offers students the foundation for producing a variety of written public relations materials. Structure includes an overview of the journalistic style of writing along with extensive practice in writing fundamentals. Following the work on enhancing writing skills, students will develop a variety of pieces for their portfolios. Final class products include print news releases, position papers, feature stories, media advisories, media kit, and other related assignments. Course is strongly recommended for students interested in public relations, advertising, marketing, and organizational communication. Writing and Rhetoric Concentration. Writing Intensive. Prerequisite: COM 3460 or permission of Chairperson.

**Directed Study**

11330 COM-5100-030 (5/28-7/28) TBA 3 cr.  
Dr. Crable  
Supervised project culminating in term paper. Restricted to Communication majors/minors. Permission of Chairperson required.

**GRADUATE COURSES**

**Internship in Communication**

11331 COM-8003-030 (5/28-7/28) TBA 3 cr.  
Dr. Woodard  
Internships at area businesses and organizations supervised by a faculty member. Restricted: requires permission of Program Director.

**Independent Study: Strategic Communication**

11332 COM-8004-030 (5/28-7/28) TBA 3 cr.  
Dr. Woodard  
Individual research project in an advanced area of communication, conducted under the guidance of a faculty member. Restricted: requires permission of Program Director.

**Thesis Direction I**

11333 COM-8006-030 (5/28-7/28) TBA 3 cr.  
Dr. Woodard  
Restricted: requires permission of Program Director.

**Thesis Direction II**

11334 COM-8007-030 (5/28-7/28) TBA 3 cr.  
Dr. Woodard  
Restricted: requires permission of Program Director.

**Orientation: Graduate Study in Communication**

11335 COM-8008-030 (5/28-7/28) TBA 1 cr.  
Dr. Woodard  
Restricted: requires permission of Program Director.

**Independent Study: Media and Culture**

11336 COM-8312-030 (5/28-7/28) TBA 3 cr.  
Dr. Woodard  
Individual research project in an advanced area of communication, conducted under the guidance of a faculty member. Restricted: requires permission of Program Director.

**Thesis Continuation**

11337 COM-9080-030 (5/28-7/28) TBA 0 cr.  
Dr. Woodard  
Continuation of supervised research for students writing master's theses. Restricted: requires permission of Program Director.

**COMPREHENSIVE SCIENCE**

Dr. Hartmann, *Director*  
Office: 451 St. Augustine  
Phone: 610-519-8900

**Internship Elective**

11486 SCI-1903-030 (5/28-7/28) TBA 3 cr.  
Dr. Hartmann  
Permission of Program Director is required. Junior or senior Comprehensive Science students with a 3.0 QPA only.



**Internship Elective** 6 cr.  
11487 SCI-1906-030 (5/28-7/28) TBA Dr. Hartmann  
Permission of Program Director is required. Junior or senior Comprehensive Science students with a 3.0 QPA only.

**Internship** 3 cr.  
11488 SCI-2993-030 (5/28-7/28) TBA Dr. Hartmann  
Permission of Program Director is required. Junior or Senior Comprehensive Science students with 3.0 GPA only.

**Internship** 6 cr.  
11489 SCI-2996-030 (5/28-7/28) TBA Dr. Hartmann  
Permission of Program Director is required. Junior or Senior Comprehensive Science students with 3.0 GPA only.

## COMPUTER SCIENCE

### UNDERGRADUATE COURSES

Dr. Beck, *Chair*  
Office: 161 Mendel  
Phone: 610-519-7307

**Computing and the Web** 3 cr.  
11338 CSC-1020-030 (5/28-7/28) MW 5:20-8:00 p.m. Staff MG86  
Information representation and manipulation; file systems and directories; compatibility and data exchange; security and privacy; elements of computer architectures and operating systems; computer networks, the Internet, and the World Wide Web; PC based examples and illustrations. Satisfies core Math/CSC requirement.

**Algorithms and Data Structures I** 4 cr.  
11339 CSC-1051-030 (5/28-7/28) MW 5:20-8:00 p.m. Staff MG87  
Object-oriented design: objects, classes, methods, encapsulation; programming fundamentals: data, variables, selection, loops, arrays, input/output; basic graphics; extensive programming required. Satisfies core Math/CSC requirement. Cognitive Science.

**Discrete Structures** 3 cr.  
11340 CSC-1300-035 (5/28-7/28) Ms. Metzger  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Internship in Computing** 3 cr.  
11341 CSC-2993-030 (5/28-7/28) TBA Dr. Beck  
Internship in computer science open to second semester sophomores and above. Most likely, intern will participate in computer system development, maintenance, or evaluation in an environment which supports sound software engineering techniques.

**Independent Study** 3 cr.  
11342 CSC-5993-030 (5/28-7/28) TBA Staff  
11343 CSC-5993-031 (5/28-7/28) TBA Staff  
Reading, research and/or projects in a selected area of computer science under the direction of a member of the staff. May be repeated for credit.

### GRADUATE COURSES

Dr. Cassel, *Director*  
Office: 161 Mendel  
Phone: 610-519-7310

The Graduate Program in Computer Science is designed as a terminal degree program leading to the M.S. degree, but students desiring professional retraining or continuing education

are welcome to take courses. Some courses assume partial or total fulfillment of the admission requirements to the Program: calculus (at Villanova, MAT 1320, 1325), statistics (MAT 2310), algorithms and data structures (CSC 7000, or CSC 1051, 1052), computer organization (CSC 7100 or CSC 1200), and discrete structures (CSC 1300).

Most students taking summer graduate courses in computer sciences are pursuing the Master's Degree at Villanova University. Students from other departments and institutions are welcome to take courses; however, they must have their registrations approved by the program director. This is necessary in order to monitor adherence to course prerequisites and to ensure priority to those students who need courses as part of their degree program at Villanova University.

### **Design and Analysis of Algorithms**

3 cr.

11344 CSC-8301-030 (5/28-7/28) *Th 6:00-9:30 p.m.*

Dr. Hagelgans M256

Fundamental strategies for algorithm design; mathematical and empirical techniques for analysis of nonrecursive and recursive algorithms, with applications such as sorting, searching, string processing and graphs; NP-complete problems and approximation algorithms.

### **Database Systems and File Management**

3 cr.

11345 CSC-8490-030 (5/28-7/28) *W 6:00-9:30 p.m.*

Dr. Goelman M256

Architecture of a database system; conceptual and implementation models; query languages; design theory; integrity, security, and concurrency; discussion of some commercial systems. Prerequisite: Graduate Arts and Sciences level CSC 8301 Minimum Grade of C and Graduate Arts and Sciences level CSC 8400 Minimum Grade of C.

### **Computer Networks**

3 cr.

11346 CSC-8560-030 (5/28-7/28) *T 6:00-9:30 p.m.*

Dr. Schragger M258

Computer networks as an application development platform; services required by and provided to distributed application electronic mail systems enhancement; access to remote file systems; integration of remote resources such as components of the World Wide Web into applications; abstract syntax notation; data compression and encryption; session control and synchronization; transport protocols; network addressing and routing; LAN and MAN medium access control; bridging. Treatment of Open Systems Interconnection and Internet protocols and services. Prerequisites: Graduate Arts and Sciences level CSC 8301 Minimum Grade of C and Graduate Arts and Sciences level CSC 8400 Minimum Grade of C.

### **System Programming in UNIX and C**

3 cr.

11347 CSC-8700-030 (5/28-7/28) *M 6:00-9:30 p.m.*

Mr. Nadi M154

The UNIX operating system: command interpreters, shell programming, process structure, file system, utilities like grep, sed, awk, and perl. C programming: file processing, libraries, program environment, system calls. Prerequisites: Graduate Arts and Sciences level CSC 8301 Minimum Grade of C and Graduate Arts and Sciences level CSC 8400 Minimum Grade of C.

**This course is 50% Distance Learning.**

### **Graduate Computing Practicum**

1 cr.

11348 CSC-8990-030 (5/28-7/28) *TBA*

Dr. Cassel

Work experience in computing, CSC graduate program approval required for a specific work opportunity. Prerequisite: Completion of graduate CSC core: CSC 8301, 8310, 8400, 8410, and 8510, Minimum grade of C.

### **Graduate Computing Practicum Continuation**

0 cr.

11715 CSC-8991-030 (5/28-7/28) *TBA*

Dr. Cassel

### **Guided Study**

3 cr.

11349 CSC-9000-030 (5/28-7/28) *TBA*

Dr. Cassel

Faculty-directed study by small number of students on topic of mutual interest. Topics vary with faculty & student goals. May replicate rarely offered course or research topics not covered in existing courses. Requires permission of instructor & program director. Open to graduate students in computer science or software engineering.

**Special Topic: Safeware – Computers and System Safety** 3 cr.  
11350 CSC-9010-030 (5/28-7/28) *Th 6:00-9:30 p.m.* Dr. Fleischman MG86  
Advanced elective study of topics of current interest and importance in the computer field.  
This may be retaken for a different topic. Please contact the Graduate Computing Sciences  
department for additional information.

**Special Topic: Database Administration** 3 cr.  
11351 CSC-9010-031 (5/28-7/28) *T 6:00-9:30 p.m.* Dr. Dullea MG86  
Advanced elective study of topics of current interest and importance in the computer field.  
This may be retaken for a different topic. Please contact the Graduate Computing Sciences  
department for additional information.

**Independent Study** 3 cr.  
11352 CSC-9020-030 (5/28-7/28) *TBA* Dr. Joyce  
11353 CSC-9020-031 (5/28-7/28) *TBA* Dr. Joyce  
Individual research project in an advanced area of computer science, conducted under the  
guidance of a faculty member.

**Independent Study Continuation** 0 cr.  
11354 CSC-9021-030 (5/28-7/28) *TBA* Dr. Joyce  
Continuation beyond the first semester for students who have registered for the independent  
study (CSC 9020).

**Thesis Direction** 3 cr.  
11355 CSC-9030-030 (5/28-7/28) *TBA* Dr. Joyce  
Expanded Independent study in which the student makes an original contribution to the  
computer science field.

**Thesis Continuation** 0 cr.  
11356 CSC-9080-030 (5/28-7/28) *TBA* Dr. Joyce

## CRIMINAL JUSTICE

Dr. Arvanites, *Director*  
Office: 287 St. Augustine  
Phone: 610-519-4741

**Introduction to Criminal Justice** 3 cr.  
**11699 CRJ-1000-015 (5/28-6/25)** Dr. Arvanites  
**This is a Distance Learning section of this course. Please see page 75 for more  
information.**

**Internship** 3 cr.  
11713 CRJ-6003-030 (5/28-7/28) *TBA* Dr. Arvanites  
Supervised work experience in a criminal justice agency. Must be enrolled in the Criminal  
Justice Major.

**Internship** 6 cr.  
11714 CRJ-6006-030 (5/28-7/28) *TBA* Dr. Arvanites  
Supervised work experience in a criminal justice agency. Must be enrolled in the Criminal  
Justice Major.

## GRADUATE COURSES

**Thesis Direction** 3 cr.  
11208 CRJ-8200-030 (5/28-7/28) *TBA* Dr. Hannon

**Thesis Direction** 3 cr.  
11281 CRJ-8201-030 (5/28-7/28) *TBA* Dr. Hannon

**Individual Research I** 3 cr.  
11282 CRJ-8300-030 (5/28-7/28) TBA Dr. Hannon  
An individual research project under the direction of a Villanova faculty member. Permission of the Director and written consent of the faculty member is required.

**Independent Research II** 3 cr.  
11283 CRJ-8301-030 (5/28-7/28) TBA Dr. Hannon  
An individual research project under the direction of a Villanova faculty member. Permission of the Director and written consent of the faculty member is required.

**Criminal Justice Internship I** 3 cr.  
11284 CRJ-8400-030 (5/28-7/28) TBA Dr. Hannon  
Administrative experience in a criminal justice agency or organization.

**Criminal Justice Internship II** 3 cr.  
11285 CRJ-8401-030 (5/28-7/28) TBA Dr. Hannon  
Administrative experience in a criminal justice agency or organization.

## ECONOMICS AND STATISTICS

Dr. Mao, *Chair*  
Office: 2015 Bartley  
Phone: 610-519-4370

**Introduction to Microeconomics** 3 cr.  
11357 ECO-1001-010 (5/28-6/25) MTWThF 8:30-10:20 a.m. Staff B2045  
The price system; demand and supply analysis; the production process; analysis of market structures.

**11358 ECO-1001-025 (6/27-7/28)** Staff  
**This is a Distance Learning section of this course. Please see page 75 for more information.**

**Introduction to Macroeconomics** 3 cr.  
11360 ECO-1002-020 (6/27-7/28) MTWThF 10:30 a.m.-12:20 p.m. Staff B3041  
11361 ECO-1002-030 (5/28-7/28) MW 6:00-8:00 p.m. Staff B3041  
The economic system and its fundamental principles. The economic functions of government, monetary and fiscal policy, and international trade.

**11359 ECO-1002-015 (5/21-6/25)** Fr. Farrell, O.S.A.  
**This is a Distance Learning section of this course. Please see page 75 for more information.**

**Internship Elective** 3 cr.  
11362 ECO-1903-030 (5/28-7/28) TBA Dr. Mao  
Permission of Chairperson required.

**Internship** 3 cr.  
11363 ECO-2993-030 (5/28-7/28) TBA Dr. Mao  
Permission of Chairperson required.

**Internship** 6 cr.  
11364 ECO-2996-030 (5/28-7/28) TBA Dr. Mao  
Permission of Chairperson required.

**International Economics** 3 cr.  
11365 ECO-3109-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m. Staff B035  
Comparative advantage; gains from foreign trade; Heckscher-Ohlin doctrine; technology and product cycles; tariff theory and policy; other protection measures; economic integration; foreign exchange rates; fixed and flexible rates; balance of payments; multinational corporations. Prerequisites: (ECO 1001 or HON 1080) and (ECO 1002 or HON 1081).

11366 ECO-3109-015 (5/28-6/25)

Dr. Wolnicki

11367 ECO-3109-016 (5/28-6/25)

Dr. Wolnicki

11368 ECO-3109-017 (5/28-6/25)

Dr. Wolnicki

These are Distance Learning sections of this course. Please see page 75 for more information.

#### **Business Statistics**

3 cr.

11697 DIT-2010-015 (5/28-6/25)

Staff

11698 DIT-2010-016 (5/28-6/25)

Staff

These are Distance Learning sections of this course. Please see page 75 for more information.

### **EDUCATION AND HUMAN SERVICES**

Dr. Titone, *Chair*

Office: 302A St. Augustine

Phone: 610-519-4620

#### **UNDERGRADUATE COURSES**

##### **EDUCATION**

#### **Social Foundations of Education I**

3 cr.

11369 EDU-2201-010 (5/28-6/25) *MTWTh 10:30 a.m.-12:20 p.m.*

Dr. Ramirez B024

Major movements in the history of education to 1600 with emphasis on their social and philosophical context; historical development of educational aims, curriculum and types of education; religious and political influences on education.

#### **Psychology of Teaching and Learning**

3 cr.

11370 EDU-3251-010 (5/28-6/25) *TWTh 5:00-7:00 p.m.*

Dr. Wojcik B023A

The application of learning theory to classroom teaching.

##### **HUMAN SERVICES**

#### **Life Skills Planning**

3 cr.

11479 HS-3600-010 (5/28-6/25) *TWTh 4:30-6:50 p.m.*

Dr. Ramirez B024

Determination of personal and professional life goals from the perspective of one's own strengths and weaknesses. Helping others in the process of selecting career paths and developing self and peer helping skills. Recommended for undergraduate students interested in the decision-making factors in career selections.

#### **Human Services Independent Study**

3 cr.

11692 HS-3900-020 (6/27-7/28) *TBA*

Dr. Kahn

Supervised research or field experience project and paper. Students may only register for this class once, and it cannot take the place of any Human Service course requirements.

#### **GRADUATE COURSES**

##### **EDUCATION**

#### **Current Issues in American Education**

3 cr.

11375 EDU-8610-010 (5/28-6/25) *TWTh 4:30-6:45 p.m.*

Dr. Heitzmann SA210

Critical issues for the administrator, counselor, and teacher are discussed. Students are grouped according to their areas of concentration so that the issues chosen reflect their concerns.

#### **Comparative Education**

3 cr.

11377 EDU-8669-020 (6/27-7/28) *MW 1:45-5:00 p.m.*

Dr. Brooks SA410

Educational ideals, systems, and problems of the United States and selected foreign countries. Special reference given to curriculum development and teaching materials in each country.

### **History of American Education**

11378 EDU-8671-020 (6/27-7/28) *TTh 5:15-8:45 p.m.* 3 cr.  
Dr. Brooks SA410  
The principal movements in American education and their leadership, including college and university development, public and parochial schools, teacher education, progressive education and role of the federal government. Approval of Chairperson required. **Masters Plus Certification Students only.**

### **Technology in Teaching**

11379 EDU-8676-010 (6/23-6/27) *MTWThF 9:00 a.m.-4:00 p.m.* 3 cr.  
Dr. Durnin F307  
11380 EDU-8676-020 (7/7-7/11) *MTWThF 9:00 a.m.-4:00 p.m.* 3 cr.  
Dr. Durnin F307  
Examination of a variety of technological applications appropriate to elementary and secondary teaching. Emphasis is upon the use of computers, CD-ROMs, laser discs, the Internet, World Wide Web, Hypercard and multimedia with classroom instruction. Laboratory experiences with various technologies will be provided. Course will allow for differentiated learning experiences based upon previous technical skills.  
**11379 EDU-8676-010 - Master's Plus Certification Students only.**

### **Multiculturalism**

11381 EDU-8678-020 (6/27-7/28) *MW 1:45-5:00 p.m.* 3 cr.  
Dr. Fierros B024  
Issues of race, culture, sexual orientation, and special education as they are related to the understanding and practice of education. **Master's Plus Certification Students only.**

### **Independent Study and Research I**

11382 EDU-9031-010 (5/28-6/25) *TBA* 3 cr.  
Dr. Heitzman

## **COUNSELING AND HUMAN RELATIONS**

### **Special Education for Counselors and Teachers**

11290 CHR-8600-020 (6/27-7/28) *TTh 1:00-4:30 p.m.* 3 cr.  
Ms. Sterling SA110  
Focuses on children with special needs, and the role of the guidance counselor and teacher in working with them.

### **Research and Evaluation**

11291 CHR-8604-020 (6/27-7/28) *MW 5:15-8:45 p.m.* 3 cr.  
Dr. Fierros B024  
Analysis of major types of social science research; familiarization with research resources and literature survey procedures; evaluation of research; its implications for, and its applications to counseling; practice in using common research procedures.

### **Laboratory in Counseling Skills**

11292 CHR-8605-010 (5/28-6/25) *TWTh 4:30-6:45 p.m.* 3 cr.  
Dr. Kahn T237  
Introductory course in counseling focusing on such skills as attending, listening, perceiving, reflecting, summarizing, questioning, confronting, goal-setting and decision-making. Ethical and professional issues will also be discussed. Students will participate in experiential exercises and/or actual counseling sessions utilizing these skills.

### **Laboratory in Group Dynamics**

11293 CHR-8655-010 (5/28-6/25) *TWTh 7:00-9:20 p.m.* 3 cr.  
Dr. Monnig T237  
An experiential course requiring participation in an on-going growth group for a semester. The course is designed as a place where students can learn more about themselves and their interaction with, and reactions to, others. Permission by the instructor for those outside the Counseling and Human Relations program.

### **School Counseling Orientation**

11294 CHR-8680-010 (5/28-6/25) *TWTh 7:00-9:20 p.m.* 3 cr.  
Dr. Kahn T231  
To develop a guidance philosophy, objectives and goals, that are complementary and consistent with the philosophy of the school and to develop the counselor as a catalyst to produce a positive environment for learning.

**Consultation Processes**11295 CHR-8683-020 (6/27-7/28) *TTh 5:15-8:45 p.m.*3 cr.  
Dr. Davis SA310  
The effective use of the techniques of counseling in the application of consultative services are explored. Basic individual and group skills, organizational structure and effective communication are presented.**Lifestyle and Career Development**11296 CHR-8685-010 (5/28-6/25) *TWTh 4:30-6:45 p.m.*3 cr.  
Dr. Tierno SA310  
This course focuses upon various psychological theories of career development and vocational adjustment with an emphasis on vocational and lifestyle choice processes across a lifespan.**Group Counseling Theory and Practice**11297 CHR-8686-010 (5/28-6/25) *TWTh 7:00-9:20 p.m.*3 cr.  
Dr. Lerner T245  
An examination of group development theories, concepts in leadership, ethical and professional issues in groups. Students will observe and critique a beginning group. To help integrate the experiential with the theoretical components of group study, a group experience and an opportunity to co-facilitate the group are included. Advanced Groups only. Prerequisite: CHR 8687.**Counseling Theory and Practice**11298 CHR-8687-020 (6/27-7/28) *MW 5:15-8:45 p.m.*3 cr.  
Dr. Schmidt T237  
A study of the major counseling theories and practices used in helping relationships utilizing various counseling techniques in simulated and actual situations.**Co-Facilitating Groups**11299 CHR-8695-010 (5/28-6/25) *TBA*3 cr.  
Dr. Monnig  
A practicum experience in co-facilitating groups will give the student practice in conducting a group, dealing with leadership styles, group problems, and difficult group member types.**Crisis Interventions**11300 CHR-8840-010 (5/28-6/25) *TWTh 4:30-6:45 p.m.*3 cr.  
Dr. Monnig T231  
Overview of critical issues causing situational and developmental crisis such as HIV/AIDS, Rape, Sexual abuse, Child abuse, Eating disorders, and Crime/Violence. Theory and lab experience in crisis work. Exploration of Community Resources.**Family Interventions**11301 CHR-8845-020 (6/27-7/28) *MW 5:15-8:45 p.m.*3 cr.  
Dr. Luquet SA210  
Family therapy and theories of family development, crisis, and change over the life cycle. Patterns of family-member interaction. Emphasis is on working with families around child-parent of marital problems in order to open communication, identify problems, and resolve conflict. Prerequisites: CHR 8605, CHR 8655 and CHR 8687 (Minimum Grade of C).**Internship and Seminar II in Community Counseling**11302 CHR-8851-010 (5/28-6/25) *TWTh 1:00-3:20 p.m.*3 cr.  
Dr. Monnig T231  
Supervised field experience in an approved community agency providing on-site supervision and in-depth experiences in counseling; intensive study and application of various techniques of counseling, critiquing live and simulated counseling sessions using audio and videotape methods.**Therapeutic Strategies for Working with Children**11303 CHR-8854-020 (6/27-7/28) *TTh 5:15-8:45 p.m.*3 cr.  
Ms. Sterling SA110  
Participants will learn techniques involved in play therapy, child counseling, and consulting with teachers, parents, and other professionals. Actual practice will be included.**Appraisal in Counseling**11304 CHR-8855-020 (6/27-7/28) *MW 5:15-8:45 p.m.*3 cr.  
Dr. Hirallal SA110  
A survey of psychological tests and instruments commonly used in schools and agencies providing human services. Following a review of scoring interpretation and uses of various instruments including standardized intelligence, personality and psychomotor tests will be given.

**Adolescent Counseling** 3 cr.  
11305 CHR-8857-010 (5/28-6/25) *TWTh 7:00-9:20 p.m.* Dr. Malott SA410  
Individual, family and school/institution therapeutic interventions for working with adolescents. Adolescent developmental stages and tasks as they relate to mental health, with emphasis on gender and cultural differences. Practice in developmental and remedial strategies.

**Counseling Diverse Populations** 3 cr.  
11306 CHR-8860-020 (6/27-7/28) *MW 1:45-5:00 p.m.* Dr. Tierno SA110  
This course will explore the social, psychological, cultural, economic and environmental influences that affect various client populations. The special counseling needs of women, men, ethnic and cultural minorities, and the handicapped will be explored.

**Human Growth and Development** 3 cr.  
11307 CHR-8884-010 (5/28-6/25) *TWTh 4:30-6:45 p.m.* Dr. Crane SA110  
Developmental stages and tasks as they relate to mental health will be explored. Psychological, sociological, and biological dimensions will be reviewed and counseling strategies for dealing with problems and life crises will be demonstrated.

**Independent Study and Research** 3 cr.  
11309 CHR-9031-020 (6/27-7/28) *TBA* Dr. Murray, O.S.A.

## ELECTRICAL AND COMPUTER ENGINEERING

Dr. Singh, *Chair*  
Office: 411 Tolentine  
Phone: 610-519-4970

**Fundamentals of Electrical Engineering II** 3 cr.  
11123 ECE-2054-D35 (5/28-7/28) Dr. Mercedee  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Fundamentals of MATLAB** 2 cr.  
11124 ECE-2409-D15 (5/28-6/25) Dr. Mobasseri  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Electrical Engineering Summer Internship** 3 cr.  
11125 ECE-5010-030 (5/28-7/28) *TBA* Dr. Singh  
Academic credit for a summer internship. Requirements: Senior standing, a technical GPA of 3.0 or greater, and sponsorship by a full-time faculty member arranged prior to the start of the internship. Program details available from the Electrical and Computer Engineering Department Chairman, Tolentine Hall, Room 403. (610-519-4971).

**Electrical Engineering Research I** 3 cr.  
11126 ECE-5991-030 (5/28-7/28) *TBA* Dr. Singh  
Students work with faculty on current research topics. Weekly meetings with faculty advisor and a final written report and/or oral presentation are required. Prerequisite: Junior or Senior standing.

## GRADUATE COURSES

**Fundamentals of Solid State Electronics** 3 cr.  
11112 ECE-7500-030 (5/28-7/28) *W 6:00-9:30 p.m.* Dr. Jupina CEER314  
Solid state electronics concepts including semiconductor device physics, microelectronic fabrication, and SPICE modeling. Topics include quantum well structures, semiconductor physics, pn junctions, bipolar and field effect transistors, photolithography, oxidation, diffusion, and computer simulation of semiconductor devices.



**11113 ECE-7500-D35 (5/28-7/28)****Dr. Jupina**

This is a Distance Learning section of this course. Please see page 75 for more information.

**Independent Study**

3 cr.

11115 ECE-9030-030 (5/28-7/28) TBA

Dr. Singh

An investigation of a current research topic under the direction of a faculty member. A written report is required.

**Research I**

3 cr.

11116 ECE-9031-030 (5/28-7/28) TBA

Dr. Singh

Supervised research in pursuit of thesis.

**Research II**

3 cr.

11117 ECE-9032-030 (5/28-7/28) TBA

Dr. Singh

Continuation of ECE 9031.

**Thesis Continuation**

0 cr.

11118 ECE-9080-030 (5/28-7/28) TBA

Dr. Singh

The continuation of the Master Thesis Course, ECE 9031.

**Independent Study Continuation**

0 cr.

11119 ECE-9085-030 (5/28-7/28) TBA

Dr. Singh

The continuation of the Independent Study Course, ECE 9030.

**Supervised Study in Electrical and Computer Engineering**

3 cr.

11120 ECE-9905-030 (5/28-7/28) TBA

Dr. Singh

Individually supervised study on special topics in electrical and computer engineering. Prerequisite: Permission of department chairperson and faculty advisor.

**Special Topics – Systems Engineering I**

3 cr.

11121 ECE-9910-030 (5/28-7/28) TBA

Dr. Singh

Topics: linear systems; control theory; stochastic control, rigid body of dynamics, vibrating systems, basic probability and statistics.

**ECE Graduate Practicum**

1 cr.

11122 ECE-9940-030 (5/28-7/28) TBA

Dr. Singh

Provides work experience for a graduate student who has been offered an opportunity to work in the electrical or computer engineering field in industry. Required for curricular practical training.

**ENGLISH**Dr. Radcliffe, *Chair*

Office: 402 St. Augustine

Phone: 610-519-4630

**The Literary Experience**

3 cr.

11383 ENG-1050-010 (5/28-6/25) MTWThF 8:30-10:20 a.m.

Ms. Ross F-EMedia

An introduction to literature and the methods of literary analysis founded upon close readings of texts from a variety of perspectives and including works from a range of genres and periods. The course is designed to instill within the student a sense of critical confidence through approaches of increasing complexity, from a mastery of the text to an understanding of the broader historical and philosophical forces in the literary work; the course thus addresses the interdisciplinary awarenesses central to the new Core. Writing Intensive.

**Internship Elective**

3 cr.

11384 ENG-1903-030 (5/28-7/28) TBA

Dr. Radcliffe

- Internship Elective** 6 cr.  
11385 ENG-1906-030 (5/28-7/28) TBA Dr. Radcliffe
- Advanced Expository Writing** 3 cr.  
11386 ENG-2000-020 (6/27-7/28) MTWThF 10:30 a.m.-12:20 p.m. Ms. Simmons T213  
Practice in writing reports, reviews, arguments, description; emphasis on organization and development. Writing Intensive.
- Journalism** 3 cr.  
11387 ENG-2020-015 (5/28-6/25) Dr. Hollis  
This is a Distance Learning section of this course. Please see page 75 for more information.
- Topic: Technical Editing** 3 cr.  
11388 ENG-2045-035 (5/28-7/28) Ms. Graziano  
This is a Distance Learning section of this course. Please see page 75 for more information.
- Topic: Advanced Business Writing** 3 cr.  
11389 ENG-2045-036 (5/28-7/28) Ms. Graziano  
This is a Distance Learning section of this course. Please see page 75 for more information.
- American Literary Traditions II** 3 cr.  
11390 ENG-2104-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m. Dr. Bonds B2072  
The development of American literature from the Civil War to modern times. Writing Enriched.
- Modern Short Story** 3 cr.  
11391 ENG-2340-010 (5/28-6/25) MTWThF 8:30-10:20 a.m. Dr. Cherry B026  
Contributions to the short story form made by American, Irish, British, and Continental writers. Writing Enriched.
- Catholic Writers: Selected Modern Readings** 3 cr.  
11708 ENG-2790-X15 (5/28-6/25) Dr. Hollis  
This is a Distance Learning section of this course. Please see page 75 for more information.
- Internship Program** 3 cr.  
11392 ENG-2993-030 (5/28-7/28) TBA Dr. Radcliffe
- Internship Program** 6 cr.  
11393 ENG-2996-030 (5/28-7/28) TBA Dr. Radcliffe
- Shakespeare** 3 cr.  
11394 ENG-3250-030 (5/28-7/28) MW 6:00-8:00 p.m. Dr. Irwin B2044  
A selection of plays by Shakespeare. Writing Enriched.
- American Drama to 1960** 3 cr.  
11395 ENG-4630-030 (5/28-7/28) TTh 6:00-8:00 p.m. Dr. Ciociola B2044  
Major plays of the period. Writing Enriched.

## GRADUATE COURSES

- Thesis Direction I** 3 cr.  
11396 ENG-8090-030 (5/28-7/28) TBA Dr. Hicks  
Direction of writing of the thesis under supervision of an individual instructor.

<b>Field Examination</b>	3 cr.
11397 ENG-8092-030 (5/28-7/28) TBA	Dr. Hicks
<b>Independent Study I</b>	3 cr.
11398 ENG-9031-030 (5/28-7/28) TBA	Dr. Hicks
Special project pursued under the direction of an individual professor.	
<b>Thesis Continuation</b>	0 cr.
11399 ENG-9080-030 (5/28-7/28) TBA	Dr. Hicks
<b>Topics in Modern American Literature</b>	3 cr.
11760 ENG-9640-010 (5/28-6/25) TBA	Dr. Lutes
Please contact the English Department for additional information on this course.	
<b>Open Seminar</b>	3 cr.
11400 ENG-9730-010 (5/28-6/25) TBA	Dr. Akoma
Please contact the English Department for additional information on this course.	

### ETHICS

Dr. Doorley, *Director*  
Office: 485 St. Augustine  
Phone: 610-519-4692

<b>Ethical Traditions and Contemporary Life</b>	3 cr.
11693 ETH-2050-020 (6/27-7/28) <i>MTWThF 8:30-10:20 a.m.</i>	Dr. Busch V201A
Major Western ethical traditions as they apply to selected contemporary ethical problems, with special consideration of Jewish and Christian perspectives. This course satisfies the Arts and Sciences Writing Enriched requirement.	

<b>11695 ETH-2050-015 (5/28-6/25)</b>	<b>Mr. Norton</b>
<b>11694 ETH-2050-025 (6/27-7/28)</b>	<b>Mr. Young</b>
<b>These are Distance Learning sections of this course. Please see page 75 for more information.</b>	

### FINANCE

Dr. Shaffer, *Chair*  
Office: 2019 Bartley  
Phone: 610-519-7395

<b>Principles of Finance</b>	3 cr.
11403 FIN-1113-030 (5/28-7/28) <i>MW 6:00-8:00 p.m.</i>	Mr. Morris B2045
The theory and techniques of financial management. Time value of money; risk and return; financial analysis and planning; working capital management, capital budgeting; cost of capital; strategic long-term financing decisions. Junior or Senior standing. Prerequisites: (ACC 1101 or HON 1101) and (DIT 2010 Concurrency: Yes or HON 2010 Concurrency: Yes or MAT 1235 Concurrency: Yes or MAT 2310 Concurrency: Yes or MAT 4310 Concurrency: Yes or ECE 3720 Concurrency: Yes) and (ECO 1001 or HON 1080) and (ECO 1002 or HON 1081) and (DIT 1006 or MIS 1006 or HON 1016).	

<b>11401 FIN-1113-015 (5/28-6/25)</b>	<b>Dr. McWilliams</b>
<b>11402 FIN-1113-016 (5/28-6/25)</b>	<b>Dr. McWilliams</b>
<b>These are Distance Learning sections of this course. Please see page 75 for more information.</b>	

<b>Intermediate Corporate Finance</b>	3 cr.
11404 FIN-2114-020 (6/27-7/28) <i>MTWThF 2:30-4:20 p.m.</i>	Dr. Gargir B2044
Risk and return relationships; valuation models; cost of capital; capital structure; capital budgeting; dividend policy; international financial transactions; financial statement analysis	

and forecasting; working capital management. Emphasis on computer applications and case studies. Writing Enhanced. Junior or Senior standing. Prerequisite: FIN 1113 or HON 1113.

### **Fixed Income Markets and Valuation**

3 cr.

11405 FIN-2227-010 (5/28-6/25) *MTWThF 12:30-2:20 p.m.*

Dr. Nawrocki B2045

An introduction to the structure and operation of the money, capital, mortgage, derivatives, and international financial markets; flow of funds from savers to borrowers; efficiency of financial markets; theories of interest rates; term structure of interest rates. Writing Enhanced. Junior or Senior standing. Prerequisite: FIN 1113 or HON 1113.

### **Financial Institutions**

3 cr.

11406 FIN-2230-020 (6/27-7/28) *MTWThF 12:30-2:20 p.m.*

Dr. Matthews B2044

The structure, operation, management, and regulation of commercial banks, savings and loan associations, mutual savings banks, credit unions, insurance companies, finance companies, pension funds, investment companies, and international financial institutions; structure and operation of the Federal Reserve system; measurement and management of the risks of financial institutions. Junior or Senior standing. Prerequisite: FIN 1113 or HON 1113.

### **Equity Markets and Valuation**

3 cr.

11407 FIN-2323-030 (5/28-7/28) *MW 6:00-8:00 p.m.*

Dr. Cochran B2073

Risk and return; market efficiency; structure of equity markets; equity trading strategies; financial statement analysis and ratio analysis; financial forecasting; valuation of common stocks using fundamental, relative, and technical analysis; convertible securities, warrants, equity options, and risk management applications. Junior or Senior standing. Prerequisite: FIN 1113 or HON 1113.

### **Finance Internship**

3 cr.

11408 FIN-3350-030 (5/28-7/28) *TBA*

Dr. Shaffer

Employment with an approved firm in the area of Finance where experience is gained with appropriate training, instruction, and supervision. Course does not fulfill the requirements for major. Prerequisites: Junior or Senior standing, a minimum GPA of 2.5, approval of the office of Business Relations, and written permission of the chairperson.

### **Independent Study-Finance**

3 cr.

11409 FIN-3360-030 (5/28-7/28) *TBA*

Staff

Independent study under a faculty member's guidance in an area of special interest to the student. The area of interest must be discussed with the faculty member prior to registration. Course does not fulfill the requirements for major. Prerequisites: Finance major with Senior standing, and written permission of chairperson required.

## **GEOGRAPHY AND THE ENVIRONMENT**

Dr. Galgano, *Chair*

Office: 202 St. Augustine

Phone: 610-519-4710

### **International Approach to Geography**

3 cr.

11416 GEO-1001-020 (6/27-7/28) *TWTh 6:30-9:25 p.m.*

Dr. Leaman M101

The human and physical realms of Geography. Focus on current geographic problems facing specific regions of the world.

### **Physical Geography**

3 cr.

11417 GEO-1500-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Dr. Henderson M260

World climates, water, landforms, soil, and vegetation form the basis of this global environmental approach.

### **Internship Elective**

3 cr.

11418 GEO-1903-030 (5/28-7/28) *TBA*

Staff

Permission of Instructor required.

**Internship Elective** 6 cr.  
11419 GEO-1906-030 (5/28-7/28) TBA Staff  
Permission of Instructor required.

**Internship** 3 cr.  
11420 GEO-2993-030 (5/28-7/28) TBA Staff  
Permission of Instructor required.

**Internship** 6 cr.  
11421 GEO-2996-030 (5/28-7/28) TBA Staff  
Permission of Instructor required.

**Seminar: Geography of National Security** 3 cr.  
11424 GEO-6100-010 (5/28-6/25) MTWThF 10:30 a.m.-12:20 p.m. Dr. Galgano M101  
A systematic and topical examination of the relationship between geography and critical national security concepts. The course uses an environmental matrix methodology to illustrate the linkages between human and natural landscapes and conflict, geostrategy, and national security. The course makes use of a case study and seminar format.

**Independent Study** 3 cr.  
11422 GEO-6200-030 (5/28-7/28) TBA Staff  
11423 GEO-6200-031 (5/28-7/28) TBA Staff  
Individual projects or studies in Geography. Permission of Instructor required.

#### GLOBAL INTERDISCIPLINARY STUDIES

Dr. Keita, *Director*  
Office: 433 St. Augustine  
Phone: 610-519-6964

#### ARABIC

**Basic Arabic I** 6 cr.  
11186 ARB-1111-010 (5/28-6/25) MTWThF 9:00 a.m.-12:50 p.m. Dr. Omran T214  
Functional use of Modern Standard Arabic for students with no prior knowledge of Arabic. Recitations, readings and oral drills. Supplementary language laboratory work.

**Basic Arabic II** 6 cr.  
11187 ARB-1112-020 (6/27-7/28) MTWThF 9:00 a.m.-12:50 p.m. Dr. Omran T214  
Functional use of Modern Standard Arabic for students with no prior knowledge of Arabic. Recitations, readings and oral drills. Supplementary language laboratory work.

#### CHINESE

**Basic Chinese I** 6 cr.  
11274 CHI-1111-010 (5/28-6/25) MTWThF 9:00 a.m.-12:50 p.m. Mr. Chi F101  
Functional use of Chinese for students with no prior knowledge of Chinese. New pronunciation system, PINYIN, readings and oral drills. Supplementary language laboratory work.

**Basic Chinese II** 6 cr.  
11275 CHI-1112-020 (6/27-7/28) MTWThF 9:00 a.m.-12:50 p.m. Mr. Chi F101  
Continuation of CHI 1111-Basic Chinese I. New pronunciation system, PINYIN, readings and oral drills. Supplementary language laboratory work.

#### JAPANESE

**Introductory Japanese I** 6 cr.  
11480 JPN-1111-010 (5/28-6/25) MTWThF 9:00 a.m.-12:50 p.m. Dr. Hamada B032  
Functional use of Japanese for students with no prior knowledge of Japanese. Communication skills (speaking and listening), reading and writing skills. Supplementary practice with computer.

## **Introductory Japanese II**

6 cr.

11481 JPN-1112-020 (6/27-7/28) *MTWThF 9:00 a.m.-12:50 p.m.* Dr. Nakagawa B032  
Functional use of Japanese for students with no prior knowledge of Japanese. Communication skills (speaking and listening), reading and writing skills. Supplementary practice with computer.

## **HISTORY**

Dr. Gallicchio, *Chair*

Office: 403 St. Augustine

Phone: 510-519-4660

### **Themes in Pre Modern World History**

3 cr.

11453 HIS-1040-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Haas B036  
Introduction to the discipline of history through the comparative exploration of at least three different world civilizations during their formative, pre-modern periods (pre-1750). Cultural contact and exchange; pre-modern economies, political institutions, and social structures; religion and culture art; art, architecture and literature. Civilizations to be examined may include Japan, China, Central Asia, India, Persia, Mesopotamia, Nilotic civilizations, sub-Saharan Africa, Arab Caliphate, Classical Mediterranean (Greece/Rome), Byzantium, Medieval western Europe, Andean, and Meso-American civilizations.

### **Themes in Modern World History**

3 cr.

11451 HIS-1050-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Little B036  
Introduction to the discipline of history through the investigation of major historical moments and themes in the transformation of diverse nations and regions of the world since 1500. Political, technological, and economic revolutions; cross-cultural exchange and the emergence of a global economy; environmental transformation and degradation; secularism, individualism, and values associated with modernism.

### **Internship Elective**

3 cr.

11456 HIS-1903-030 (5/28-7/28) *TBA* Dr. Gallicchio  
Permission of Chairperson required.

### **Colonial America**

3 cr.

11452 HIS-2151-010 (5/28-6/25) *MTWThF 12:30-2:20 p.m.* Dr. Kerrison B036  
The political, economic, social, and intellectual life of the American colonies and the clash of racial and ethnic groups in America to 1763.

### **History of Philadelphia**

3 cr.

11454 HIS-2303-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Huss B034  
An investigation of the city's past and present through reading historical accounts and exploring today's city. Changes and continuity in politics, economy, and social composition from 1682 to today, with particular attention to social structures and the changing physical environment of the city.

### **History Internship**

3 cr.

11457 HIS-2993-030 (5/28-7/28) *TBA* Dr. Gallicchio  
An internship in a local historical archive, museum, park, or library. Permission of chairperson required.

### **History Internship**

6 cr.

11458 HIS-2996-030 (5/28-7/28) *TBA* Dr. Gallicchio  
A more extensive internship in a local historical archive, museum, park, or library. Permission of Chairperson required.

### **The Roman Empire**

3 cr.

11455 HIS-3017-020 (6/27-7/28) *MTWThF 12:30-2:20 p.m.* Dr. Haas B036  
The achievement of the Pax Romana from the reforms of Augustus to the break-up of the western Empire in the fifth century A.D. Topics treated include life in the provinces, the romanization of indigenous peoples, the legions and society, culture and decadence in the capital, and the rise of Christianity.

**Topic: Imperialism and the Humanities**

3 cr.

11674 HIS-4995-X30 (5/28-7/28) *TTh 6:00-8:00 p.m.*

Dr. McCarraher T310C

What have been the meanings of empire for imperialist and imperialized? How can different humanities complement, enrich, and contradict each other? Theme pursued through literature, history, philosophy, theology, art, music and film. Fulfills an upper level History in the Core Curriculum. Cross listed with HUM-2500-X30.

**Independent Research**

3 cr.

11459 HIS-5515-030 (5/28-7/28) *TBA*

Dr. Gallicchio

An intensive research project under individual direction. Permission of Chairperson required. Restricted to History Majors.

**GRADUATE COURSES****Topic: Jefferson's America**

3 cr.

11460 HIS-8002-030 (5/28-7/28) *M 6:00-8:50 p.m.*

Dr. Kauffman B034

Using Jefferson as the cornerstone, the class will examine life within the United States from the period of the Revolution to the heated debates surrounding the nature of government between the Federalists and Jeffersonian Republicans. In addition to discussion of political ideology, the course will explore issues of gender and family, race, and religious freedom. We also will examine how certain founders defined terms such as virtue and honor and how they measured those traits when forging both personal ties and professional alliances. Requirements: Class participation; Weekly written commentaries on the readings; written analysis of a book and scholarly article; a comprehensive final exam. Books available in the bookstore: Joseph Ellis, *American Sphinx* and Jan Lewis and Peter Onuf, eds., *Sally Hemings and Thomas Jefferson*. For the many scholarly articles, which will be available for your use in Falvey Library, please view the syllabus for the course on file in the History Dept.

**Great Britain Since 1815**

3 cr.

11461 HIS-8245-030 (5/28-7/28) *T 6:00-8:50 p.m.*

Dr. Bailey B036

Major themes in the development of Great Britain from the end of the Napoleonic Wars until World War 1: industrialism, political reform, and the modernization of the state, the triumph of liberalism, and the rise of labor.

**Atlantic World 1500-1800**

3 cr.

11462 HIS-8410-030 (5/28-7/28) *Th 6:00-8:50 p.m.*

Dr. Keita B036

A study of the Atlantic world in its imperial and economic aspects from the sixteenth through the eighteenth centuries, including Europe, the Americas, the Caribbean, and Africa.

**Environmental History**

3 cr.

11463 HIS-8648-030 (5/28-7/28) *W 6:00-8:50 p.m.*

Dr. Rosier B034

The influence of natural environmental forces on human activity and historical change, and the changes in social and cultural attitudes towards nature and natural resources. Focus on Europe and the United States with examination of such topics as European expansion, the scientific revolution, industrialization, and environmentalist movements.

**Graduate Internship in Public History**

3 cr.

11464 HIS-9006-030 (5/28-7/28) *TBA*

Staff

Internships at area public history sites arranged and supervised by members of the faculty. Practical experience in public history, opportunities to advance historical knowledge, skills, and understanding while applying them to contemporary situations and problems. Graduate students may take this course only once. For Graduate students only: permission of the Graduate Program Director required.

**Directed Readings in History**

3 cr.

11465 HIS-9012-030 (5/28-7/28) *TBA*

Staff

Independent Study and reports on selected topics. Permission of the instructor and approval of the graduate chairperson are required.

**Thesis Direction I**

3 cr.

11466 HIS-9022-030 (5/28-7/28) *TBA*

Staff

Supervised research for students writing master's theses. Permission of the graduate chairperson is required.

**Thesis Direction II**

3 cr.

11467 HIS-9032-030 (5/28-7/28) *TBA*

Staff

Supervised research for students writing master's theses. This course may be taken concurrently with HIS 9022. Permission of the graduate chairperson is required.

**Thesis Continuation**

0 cr.

11468 HIS-9080-030 (5/28-7/28) *TBA*

Staff

Continuation of supervised research for students writing master's theses. Permission of the graduate chairperson is required.

**MASTERS IN HUMAN RESOURCE DEVELOPMENT**

Dr. Bush, *Director*

Office: American College, Huebner Hall

Phone: 610-519-6360

**Financial Management for Profit**

3 cr.

11469 HRD-8003-030 (5/28-7/28) *M 6:15-9:15 p.m.*

Mr. Powell ACHUEB123

Financial management and budgetary skills for profit-making organizations. This course will be held in Huebner Hall at The American College.

**Internship in Human Resource Development**

3 cr.

11470 HRD-8010-030 (5/28-7/28) *TBA*

Dr. Bush

HR field experience in an organization. May be waived with appropriate experience.

**Internship in Human Resources**

0 cr.

11471 HRD-8011-030 (5/28-7/28) *TBA*

Dr. Bush

An extension or continuation of HRD 8010 Internship.

**Individual Research in HRD**

3 cr.

11472 HRD-8012-030 (5/28-7/28) *TBA*

Dr. Bush

Individual research project conducted under the direction of a Human Resource Development faculty member. Permission of the program's director and consent of the faculty member.

**Human Resource Planning**

3 cr.

11473 HRD-8210-030 (5/28-7/28) *Th 6:15-9:15 p.m.*

Dr. Smith ACHUEB 123

Principles for developing, utilizing and conserving human resources through an examination of political, social and psychological systems impacting organizations.

**Competency Assessment**

1 cr.

11474 HRD-8306-020 (7/18-7/19) *F 6:00-9:00 p.m.* Ms. Mazzone-Kermon ACHUEB123  
*S 9:00 a.m.-5:00 p.m.*

Review of the O\*Net system to examine competencies required for jobs and how these competencies can be assessed. This course will be held in Huebner Hall at The American College.

**Project Management**

1 cr.

11475 HRD-8309-010 (6/6-6/7) *F 6:00-9:00 p.m.*

Dr. Bush ACHUEB123

*S 9:00 a.m.-5:00 p.m.*

Components of project planning, monitoring, and evaluation. This course will be held in Huebner Hall at The American College.

**Consulting in Human Resources**

1 cr.

11476 HRD-8320-010 (6/13-6/14) *F 6:00-9:00 p.m.*

Dr. Bush ACHUEB123

*S 9:00 a.m.-5:00 p.m.*



A review of the components of HR consulting with an emphasis on business development in a tight economy. Material adapted from a series of Consultant's Forum Workshops conducted at the SHRM National Convention held in Philadelphia. This course will be held in Huebner Hall at The American College.

**Sarbanes Oxley Act and Corporate Ethics** 1 cr.  
11477 HRD-8321-020 (7/11-7/12) *F 6:00-9:00 p.m.* Dr. Bush/Mr. Curry ACHUEB123  
*S 9:00 a.m.-5:00 p.m.*

Review of the Enron disaster and other cases that prompted the Sarbanes-Oxley Act (SOA), the influence of McKinsey on critical strategy development, and the literature on the ethical development of executives. Kohlberg and similar investigators will be discussed. This course will be held in Huebner Hall at The American College.

**Executive Coaching** 1 cr.  
11478 HRD-8333-020 (6/27-6/28) *F 6:00-9:00 p.m.* Dr. Bush ACHUEB123  
*S 9:00 a.m.-5:00 p.m.*

Basic ethical knowledge is explored in case studies for group analysis. Team-taught by an HR executive and ethics professor to provide practical knowledge of ethical standards at work. This course will be held in Huebner Hall at The American College.

### HUMANITIES

Dr. Smith, *Chair*  
Office: 304 St. Augustine  
Phone: 610-519-6165

**Topic: Imperialism and the Humanities** 3 cr.  
11673 HUM-2500-X30 (5/28-7/28) *TTh 6:00-8:00 p.m.* Dr. McCarraher T310C  
What have been the meanings of empire for imperialist and imperialized? How can different humanities complement, enrich, and contradict each other? Theme pursued through literature, history, philosophy, theology, art, music and film. Fulfills an upper level History in the Core Curriculum. Cross listed with HIS-4995-X30.

**Literature: Catholic Writers** 3 cr.  
11710 HUM-2900-X15 (5/28-6/25) Dr. Hollis  
**This is a Distance Learning section of this course. Please see page 75 for more information**

### LEADERSHIP

Mr. Johnson, *Director*  
Office: 107 Vasey Hall  
Phone: 610-519-4305

**Ethics and Leadership** 3 cr.  
11696 LDR-2040-035 (5/28-7/28) Dr. Martini  
**This is a Distance learning section of this course. This course is restricted to Part-Time Studies students in the BIS degree program. Please see page 75 for more information.**

### GRADUATE LIBERAL STUDIES PROGRAM

Dr. McCarraher, *Director*  
Office: 256 St. Augustine  
Phone: 610-519-4796

**Topic: Great Books In History and Sociology** 3 cr.  
11139 LST-7301-030 (5/28-7/28) *W 6:15-9:30 p.m.* Dr. McCarraher/Dr. Pattnayak B1064  
How have past societies led to ours? How does ours differ from theirs? What should our responses be to the similarities and differences between our society and those of other periods? This course in Great Books of History and Sociology offers critical insights into

these and other important questions about these two fields. Each class session is team taught by two professors who have made important contributions to their respective fields, using great books that are widely recognized for their influence in History and Sociology. The discussions in class and written assignments focus on the most important arguments made in these works.

**Directed Readings Seminar**

11140 LST-8000-010 (5/28-6/25) *TBA*  
 11141 LST-8000-020 (6/27-7/28) *TBA*  
 11142 LST-8000-030 (5/28-7/28) *TBA*

3 cr.  
 Dr. McCarraher  
 Dr. McCarraher  
 Dr. McCarraher

**Independent Study and Research**

11143 LST-8100-010 (5/28-6/25) *TBA*  
 11144 LST-8100-020 (6/27-7/28) *TBA*  
 11145 LST-8100-030 (5/28-7/28) *TBA*

3 cr.  
 Dr. McCarraher  
 Dr. McCarraher  
 Dr. McCarraher

**MANAGEMENT AND DECISION & INFORMATION TECHNOLOGIES**

Dr. Clark, *Chair*  
 Office: 2083 Bartley  
 Phone: 610-519-6924

**Management Essentials**

11703 MGT-1102-030 (5/28-7/28) *MW 6:00-9:00 p.m.*

3 cr.  
 Dr. Fitzpatrick B3068

Introduction to organizational structures and functions; management processes and behavior of individuals and groups in organizations. Sophomore, Junior or Senior standing.

**Business Administration Internship**

11706 MGT-3310-030 (5/28-7/28) *TBA*

Employment with approved business firms where various meaningful assignments are performed with appropriate training, instruction, and supervision. Sophomore, Junior or Senior standing. Restricted to Business Administration major. Permission through CSAPD required.

**Independent Study-Administrative Science**

11707 MGT-3320-030 (5/28-7/28) *TBA*

Study with faculty member's guidance and approval in area of special interest to student. Restricted to Management major. Junior or Senior standing. Permission of Dr. Clark required.

**Operations Management**

11700 DIT-1141-015 (5/28-6/25)

11701 DIT-1141-016 (5/28-6/25)

11702 DIT-1141-017 (5/28-6/25)

**These are Distance Learning sections of this course. Please see page 75 for more information.**

3 cr.  
 Dr. Chaudhry  
 Dr. Wright  
 Dr. Wright

**MARKETING AND BUSINESS LAW**

Dr. Bonner, *Chair*  
 Office: 3015 Bartley  
 Phone: 610-519-4350

**Principles of Marketing**

11443 MKT-1137-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.*

3 cr.  
 Dr. Karson B3041

Description and evaluation of the ways in which goods and services are developed to meet customer and consumer needs and distributed for domestic and international consumption; economic, government, social, and other environmental forces in relation to the marketing function; emphasis on relevant social problems and responsibilities. Sophomore, Junior or Senior standing.

11444 MKT-1137-035 (5/28-7/28)

Dr. Sanchez

This is a Distance Learning section of this course. Please see page 75 for more information.

**Independent Study - Marketing**

3 cr.

11446 MKT-3350-030 (5/28-7/28) TBA

Dr. Bonner

Independent study under faculty guidance in an area of student's special interest. Junior or Senior standing. Prerequisites: MKT 1137 or HON 1137 or SBI 1108.

**Internship Marketing**

3 cr.

11447 MKT-3450-030 (5/28-7/28) TBA

Dr. Bonner

Employment with approved firm where varied Marketing experience is gained with appropriate training, instruction and supervision. Sophomore, Junior, or Senior standing and GPA GE 2.5.

**MATHEMATICAL SCIENCES**

Dr. Norton, *Chair*

Office: 305 St. Augustine

Phone:610- 519-4850

**Introductory Statistics I**

3 cr.

11515 MAT-1230-035 (5/28-7/28)

Dr. Lupinacci

This is a Distance Learning section of this course. Please see page 75 for more information.

**Calculus I**

4 cr.

11516 MAT-1500-010 (5/28-6/25) MTWThF 10:30 a.m.-12:50 p.m. Dr. Fleischman JB202A

11517 MAT-1500-030 (5/28-7/28) MW 5:20-8:00 p.m.

Dr. Kleiber MG90

Limits, transcendental functions (logarithms, exponential functions, inverse trigonometric functions), differentiation (definition, tangent lines, rates of change, techniques, implicit differentiation, related rates), applications of differentiation (graphing, optimization), indeterminate forms and L'Hopital's Rule. Use of a computer algebra system, e.g. MAPLE.

**Calculus II**

4 cr.

11518 MAT-1505-020 (6/27-7/28) MTWThF 10:30 a.m.-12:50 p.m.

Ms. Simone MG92

11519 MAT-1505-030 (5/28-7/28) TTh 5:20-8:00 p.m.

Mr. Santomas JB202A

Integration (indefinite, definite), applications of integration (area, volume, applications to physics and economics, etc.), methods of integration approximate integration (trapezoidal and Simpson's rules), improper integrals, differential equations, infinite sequences and series. Continued use of a computer algebra system. Prerequisite: MAT 1500.

**Intership Elective**

6 cr.

11520 MAT-1906-030 (5/28-7/28) TBA

Staff

**Calculus III**

4 cr.

11521 MAT-2500-020 (6/27-7/28) MTWThF 1:00-3:20 p.m.

Mr. Chiacchiere MG92

11522 MAT-2500-030 (5/28-7/28) MW 5:20-8:00 p.m.

Dr. Styer M115

Parametric equations, polar, cylindrical, and spherical coordinates; vectors and the geometry of space; vector functions (derivatives, integrals, curvature, etc.); partial derivatives; optimization; multiple integration and its applications; vector calculus (line integrals, vector analysis). Continued use of a computer algebra system. Prerequisite: MAT 1505.

**Differential Equations with Linear Algebra**

4 cr.

11523 MAT-2705-030 (5/28-7/28) TTh 5:20-8:00 p.m.

Dr. Hartmann MG88

First order and linear second order differential equations, matrices, and linear equation systems, eigenvalues and eigenvectors, and linear systems of differential equations. Prerequisite: MAT 1505.

**Internship Program** 3 cr.  
11524 MAT-2993-030 (5/28-7/28) TBA Staff

**Internship Program** 6 cr.  
11525 MAT-2996-030 (5/28-7/28) TBA Staff

**Independent Study** 1 cr.  
11526 MAT-5991-030 (5/28-7/28) TBA Staff  
Reading in a selected branch of mathematics under the direction of a member of the staff.  
May be repeated for credit. Prerequisite: MAT 1505.

**Independent Study** 3 cr.  
11527 MAT-5993-010 (5/28-6/25) TBA Staff  
11528 MAT-5993-020 (6/27-7/28) TBA Staff  
11529 MAT-5993-030 (5/28-7/28) TBA Staff  
11530 MAT-5993-031 (5/28-7/28) TBA Staff  
11531 MAT-5993-032 (5/28-7/28) TBA Staff  
Reading in a selected branch of mathematics under the direction of a member of the staff.  
May be repeated for credit. Prerequisite: MAT 1505.

## GRADUATE COURSES

**Mathematical Modeling** 3 cr.  
11712 MAT-8435-030 (5/28-7/28) T 6:00-9:30 p.m. Dr. Norton M256  
Model construction, Markov chains, game theory, networks and flows, growth processes  
and models for epidemics and queues with an emphasis on model construction.

**Selected Topics I** 3 cr.  
11711 MAT-8790-030 (5/28-7/28) MW 6:00-8:00 p.m. Dr. Pigeon M258  
Particular topics of study determined on a year-to-year basis to suit the desire and preparation  
of students.

**Independent Study** 3 cr.  
11532 MAT-8800-030 (5/28-7/28) TBA Staff  
11533 MAT-8800-031 (5/28-7/28) TBA Staff  
11534 MAT-8800-032 (5/28-7/28) TBA Staff  
Reading in a selected branch of mathematics under the direction of a member of the faculty.

## MECHANICAL ENGINEERING

Dr. Nataraj, *Chair*  
Office: 111 Tolentine  
Phone: 610-519-4980

**Engineering Computation** 3 cr.  
11535 EGR-1705-030 (5/28-7/28) MW 2:25-5:55 p.m. Mr. Fulmer CEER314  
Course serves as an introduction to the use of computers in engineering and to problem  
solving in engineering. The analysis of problems will be accomplished using Mathcad,  
Excel, and Matlab. Programming structures such as decisions, loops and functions will be  
covered wherever appropriate. Course will provide students with a range of skills which  
will be useful not only in the engineering curriculum but also during their engineering career.

**11536 EGR-1705-D35 (5/28-7/28)** Mr. Fulmer  
**This is a Distance Learning section of this course. Please see page 75 for more  
information.**

**Introduction to Dynamics** 3 cr.  
11538 ME-3150-030 (5/28-7/28) MW 6:00-8:00 p.m. Dr. Alaways M260  
Kinematics, velocity and acceleration of points on rigid bodies using cartesian, cylindrical,  
and tangent-normal reference frames. Mass center motion of contact force free bodies;

projectile motion, planetary, satellite, and ballistic missile motion. Translational motion of the mass center of bodies acted on by contact forces. Plane rotational motion of bodies acted on by contact forces and moments. Prerequisites: (ME 2100 or CEE 2104) and MAT 2705. Concurrency: Yes.

**Selected Topics in ME**

0-4 cr.

11539 ME-5000-030 (5/28-7/28) *TBA*

Staff

Independent study or research on a current engineering topic. Senior standing and permission of chairperson.

**Environmental Engineering**

3 cr.

11540 ME-5107-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

Mr. Witkowski M260

The engineering principles underlying the current practices of heating, ventilating, air conditioning, and refrigeration systems design. Prerequisite: ME 3100 or HON 2231.

**Fracture and Fatigue**

3 cr.

11541 ME-5301-030 (5/28-7/28) *W 6:00-10:00 p.m.*

Dr. Jen M341

Failure, structure of materials, stress-strain equations, mechanical testing, yielding & fracture, fracture of cracked members, fatigue of materials, stress-based approach to fatigue, fatigue crack growth, creep. Prerequisites: ME 3300 and ME 3402.

**GRADUATE COURSES**

**Doctoral Research**

3 to 9 cr.

11537 EGR-9100-030 (5/28-7/28) *TBA*

Staff

For accepted Ph.D. candidates conducting research as part of the Doctorate of Engineering degree requirements. The chair of the student's guidance committee is responsible for evaluating the performance of the student.

**Computer-Aided Production Planning**

3 cr.

11542 ME-7402-010 (5/28-6/25) *MW 2:00-6:00 p.m.*

Dr. Radhakrishnan CEER010

Static and dynamic production planning models, operations scheduling, inventory control, forecasting, queuing theory. Undergraduate students must obtain permission of the department chair.

**11543 ME-7402-D15 (5/28-6/25)**

**Dr. Radhakrishnan**

**This is a Distance learning section of this course. Please see page 75 for more information.**

**Mechanical and Thermal Behavior of Solids**

3 cr.

11544 ME 8302-030 (5/28-7/28) *T 6:00-10:00 p.m.*

Dr. Jen M341

Mechanisms for plastic deformation, creep, fatigue, and fracture; effects of stress, defects, structure, temperature, and corrosive environments on material behavior.

**Independent Study**

3 cr.

11545 ME-9000-030 (5/28-7/28) *TBA*

Dr. Nataraj

Individual supervised study on special topics in Mechanical Engineering. May include some research related to the topics. Approval of Chair and faculty advisor.

**Thesis Research I**

3cr.

11546 ME-9031-030 (5/28-7/28) *TBA*

Dr. Nataraj

Supervised participation in thesis research; registration to be approved by department chairperson and thesis advisor.

**Thesis Research II**

3 cr.

11548 ME-9032-030 (5/28-7/28) *TBA*

Dr. Nataraj

Second course of supervised participation in thesis research; registration to be approved by department chair and thesis advisor.

<b>Thesis Continuation</b>	0 cr.
11550 ME-9080-030 (5/28-7/28) TBA	Dr. Nataraj
<b>Independent Study Continuation</b>	0 cr.
11551 ME-9085-030 (5/28-7/28) TBA	Dr. Nataraj
<b>Graduate Practicum</b>	1 cr.
11552 ME-9086-030 (5/28-7/28) TBA	Dr. Nataraj
<b>Graduate Practicum Continuation</b>	0 cr.
11553 ME-9087-030 (5/28-7/28) TBA	Dr. Nataraj
Continuation of Mechanical Engineering Graduate Practicum. Required for extension of Curricular Practical Training (CPT).	

## MODERN LANGUAGES AND LITERATURE

Dr. Julia, *Chair*  
Office: 303 St. Augustine  
Phone: 610-519-4680

### FRENCH

<b>Introductory French I</b>	4 cr.
11410 FRE-1111-010 (5/28-6/25) <i>MTWTh 10:30 a.m.-1:00 p.m.</i> <i>F 10:30 a.m.-12:20 p.m.</i>	Dr. Waggaman SA110
Groundwork in French, including oral proficiency, aural comprehension and reading; for students with no prior knowledge of French or one year of high school French. Supplementary language laboratory work and oral drills.	
<b>Introductory French II</b>	4 cr.
11411 FRE-1112-020 (6/27-7/28) <i>MTWTh 10:30 a.m.-1:00 p.m.</i> <i>F 10:30 a.m.-12:20 p.m.</i>	Ms. McMonigle SA210
Groundwork in French, including oral proficiency, aural comprehension and reading; for students with no prior knowledge of French or one year of high school French. Supplementary language laboratory work and oral drills.	
<b>Intermediate French I</b>	3 cr.
11412 FRE-1121-010 (5/28-6/25) <i>MTWThF 8:30-10:20 a.m.</i>	Dr. Waggaman SA110
Review of grammar, composition, reading and conversation. Students should have completed FRE 1111 and 1112 or the equivalent.	
<b>Intermediate French II</b>	3 cr.
11413 FRE-1122-020 (6/27-7/28) <i>MTWThF 8:30-10:20 a.m.</i>	Ms. McMonigle SA210
Review of grammar, composition, reading and conversation. Students should have completed FRE 1121 or the equivalent.	
<b>Conversation and Composition I</b>	3 cr.
11414 FRE-1131-020 (6/27-7/28) <i>MTWThF 10:30 a.m.-12:20 p.m.</i>	Mr. Whidden SA310
Intense practice in conversation and composition with emphasis on developing advanced language skills in French. A writing enriched course. Students should have completed FRE 1121 and 1122 or the equivalent.	
<b>LeTour de France</b>	3 cr.
11415 FRE-3212-010 (5/28-6/25) <i>MTW 6:00-8:20 p.m.</i>	Mr. Whidden SA310
The world's greatest race as seen in literature, the arts, and as it is currently presented, and followed, in French media. Prerequisite: FRE 1131	

## GERMAN

**Introductory German I** 4 cr.  
11175 GER-1111-010 (5/28-6/25) *MTWTh 6:00-8:20 p.m.* Dr. Helmetag T213  
Groundwork in German, including oral, aural and reading skills. Supplementary oral drills.

**Introductory German II** 4 cr.  
11176 GER-1112-020 (6/27-7/28) *MTWTh 6:00-8:20 p.m.* Dr. Helmetag T213  
Groundwork in German, including oral, aural and reading skills. Supplementary laboratory work and oral drills.

**German for Translation** 3 cr.  
11174 GER-1113-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Helmetag T213  
Essentials of grammar and exercise for reading comprehension and translation.

**Intermediate German I** 3 cr.  
11177 GER-1121-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* Dr. Helmetag T213  
Review of grammar, composition, reading and conversation. Students should have completed GER 1111 and 1112 or the equivalent.

**Intermediate German II** 3 cr.  
11178 GER-1122-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* Dr. Helmetag T213  
Review of grammar, composition, reading and conversation. Students should have completed GER 1121 or the equivalent.

## ITALIAN

**Introductory Italian I** 4 cr.  
11170 ITA-1111-010 (5/28-6/25) *MTWTh 10:30 a.m.-1:00 p.m.* Dr. Pastore SA310  
*F 10:30 a.m.-12:20 p.m.*  
Groundwork in Italian, including oral proficiency, aural comprehension and reading for students with no prior knowledge of Italian. Supplementary language laboratory work and oral drills.

**Introductory Italian II** 4 cr.  
11171 ITA-1112-020 (6/27-7/28) *MTWTh 10:30 a.m.-1:00 p.m.* Dr. Pastore T204  
*F 10:30 a.m.-12:20 p.m.*  
Groundwork in Italian, including oral proficiency, aural comprehension and reading for students with no prior knowledge of Italian. Supplementary language laboratory work and oral drills.

**Intermediate Italian I** 3 cr.  
11172 ITA-1121-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* Dr. Rayevsky SA310  
Review of grammar, composition, reading and conversation. Students should have completed ITA 1111 and 1112 or the equivalent.

**Intermediate Italian II** 3 cr.  
11173 ITA-1122-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* Dr. Rayevsky SA310  
Review of grammar, composition, reading and conversation. Students should have completed ITA 1121 or the equivalent.

## SPANISH

**Introductory Spanish I** 4 cr.  
11163 SPA-1111-010 (5/28-6/25) *MTWTh 9:00-11:20 a.m.* Dr. Vallieres T204  
*F 9:00-10:50 a.m.*  
Groundwork Spanish, including oral proficiency, aural comprehension, and reading; for students with no prior knowledge of Spanish. Supplementary language laboratory work and oral drills.

**Introductory Spanish II** 4 cr.  
11165 SPA-1112-020 (6/27-7/28) *MTWTh 9:00-11:20 a.m.* Dr. Gastanaga T205  
*F 9:00-10:50 a.m.*  
Groundwork Spanish, including oral proficiency, aural comprehension, and reading; for students with no prior knowledge of Spanish. Supplementary language laboratory work and oral drills.

**Intermediate Spanish I** 3 cr.  
11161 SPA-1121-010 (5/28-6/25) *MTWThF 11:30 a.m.-1:20 p.m.* Dr. Trujillo T205  
Review of grammar, composition, reading and conversation. Students should have completed SPA 1111 and 1112 or the equivalent.

**Intermediate Spanish II** 3 cr.  
11168 SPA-1122-020 (6/27-7/28) *MTWThF 11:30 a.m.-1:20 p.m.* Dr. Poeta T212  
Review of grammar, composition, reading and conversation. Students should have completed SPA 1121 or the equivalent.

**Conversation & Composition I** 3 cr.  
11167 SPA-1131-010 (5/28-6/25) *MTWThF 11:30 a.m.-1:20 p.m.* Dr. Miralles T212  
Intense practice in conversation and composition with emphasis on developing advanced language skills in Spanish. Course conducted in Spanish. Writing Enriched. Students should have completed SPA 1121 and SPA 1122 or the equivalent.

**Conversation and Composition II** 3 cr.  
11166 SPA-1132-020 (6/27-7/28) *MTWThF 11:30 a.m.-1:20 p.m.* Dr. Gastanaga T205  
Further practice in conversation and composition with focus on advanced proficiency in Spanish. Course conducted in Spanish. Writing Enriched. Students should have completed SPA 1131 or the equivalent.

**Advanced Grammar** 3 cr.  
11164 SPA-1138-010 (5/28-6/25) *MTWTh 6:00-8:00 p.m.* Dr. Vallieres T204  
Intensive grammar review with special attention to literary style. Students should have completed 1132 or the equivalent.

## GRADUATE COURSES

**Special Topics: Great Voices of Chilean Poetry** 3 cr.  
11162 SPA-7440-010 (5/28-6/25) *MW 5:20-7:50 p.m.* Dr. Trujillo T205  
This course gives a deep vision of Chilean poetry of the 20th and 21st from the avant gardes continuing through the generations of 1937 and 1950 and ending with post modernist poetry. This course will favor a study of the breaks and innovations that were both a cause and a result of the changes in time periods.

**Contemporary Spanish Stage** 3 cr.  
11169 SPA-7491-020 (6/27-7/28) *TTh 5:20-7:50 p.m.* Dr. Poeta T212  
Examines the dichotomy between socio-political repression and conformity and protest in Spain of XX and XXI centuries through representative dramatists.

## NURSING

Dr. Fitzpatrick, *Dean*  
Office: St. Mary's, 1st Floor  
Phone: 610-519-4900

**Principles of Nutrition** 3 cr.  
11595 NTR-2120-015 (5/28-6/25) Dr. Costello  
11596 NTR-2120-016 (5/28-6/25) Dr. Costello  
These are Distance Learning sections of this course. Please see page 75 for more information.



**Healthy Lifestyles and Human Values** 3 cr.  
11563 NUR-2200-015 (5/28-6/25) Dr. Costello  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Research in Nursing** 3 cr.  
11564 NUR-3110-015 (5/28-6/25) Dr. Cantrell  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Nursing and Health Promotion** 6 cr.  
11570 NUR-4102-030 (5/28-7/28) TTh 9:00 a.m.-1:00 p.m. Dr. Frain/Dr. Fetter SMAUD  
Nursing and educative interventions which promote the health of groups. Focus on health needs of populations and management of health risks. Prerequisites: NUR 4101 and NUR 4103.

**Practicum in Nursing and Health Promotion** 6 cr.  
11573 NUR-4107-030 (5/28-7/28) MW 8:00 a.m.-2:00 p.m. Dr. Frain/Dr. Fetter TBA  
Application of health promotion strategies to groups composed of individuals, family and community members. Class meets in Hospital. Community Settings. Prerequisites: NUR 4101 and NUR 4103.

**Contemporary Issues and Trends** 2 cr.  
11576 NUR-4130-020 (6/27-7/28) TTh 2:00-4:30 p.m. Dr. Walsh SMAUD  
Critical analysis of major issues and trends in nursing and health care.

**Guided Study in Nursing** 1 cr.  
11579 NUR-4900-030 (5/28-7/28) TBA Dr. Keen

## GRADUATE COURSES

**Explorations in Loss** 3 cr.  
11580 NUR-7082-010 (5/28-6/25) MW 4:30-7:45 p.m. Dr. Copel SM019  
Social, cultural and psychological conditions that influence human grief in modern society.

**Issues in Health and Delivery Systems** 3 cr.  
11581 NUR-8900-030 (5/27-6/6) MTWThF 9:00 a.m.-4:00 p.m. Dr. Sharts-Hopko SMLIB  
Ph.D. students only.

**Advanced Pathophysiology** 3 cr.  
11582 NUR-8901-035 (5/28-7/28) Dr. Capriotti  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Development of Nursing Science** 3 cr.  
11583 NUR-8902-035 (5/28-7/28) Dr. Slaninka  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Leadership Strategies in Nursing** 3 cr.  
11584 NUR-8906-030 (5/19-7/28) M 10:00 a.m.-1:15 p.m. Dr. Haynor SMAUD  
11585 NUR-8906-031 (5/19-7/28) M 4:30-7:45 p.m. Dr. Haynor SMAUD  
Phenomenon of leadership, the differences between leadership and management, and strategies for providing leadership in nursing. First class will be held on **Monday, May 19, 2008**. All remaining classes are on Monday. NUR-8906-030 is restricted to Nurse Anesthetists students—others only by permission of instructor. NUR 8912 Concurrency: Yes or NUR 8812 Concurrency: Yes or NUR 8712 Concurrency: Yes or NUR 8939 Concurrency: Yes or NUR 8954

Concurrency: Yes or NUR 8940800 Concurrency: Yes or NUR 9024 Concurrency: Yes or NUR 9028 Concurrency: Yes.

**These courses are 50% Distance Learning.**

**Clinical Ethics**

3 cr.

11586 NUR-8964-030 (5/28-7/28) *T 4:30-7:45 p.m.*

Dr. Ott SM019

Moral dilemmas within the health care professions, ethical theories and principles, and professional theories are explored, and professional responsibility is emphasized.

**Independent Study in Nursing**

3 cr.

11587 NUR-9002-030 (5/28-7/28) *TBA*

Dr. Ott

11588 NUR-9002-031 (5/28-7/28) *W 4:30-7:45 p.m.*

Dr. Blunt/Dr. Pizzi SMAUD

11589 NUR-9002-032 (5/28-7/28) *W 4:30-7:45 p.m.*

Dr. Wimmer SM015

NUR-9002-031 and NUR-9002-032 are restricted to Nurse Practitioner students only.

**Advanced Study in Nursing**

3 cr.

11590 NUR-9004-030 (5/28-7/28) *TBA*

Dr. Schlag

Design a creative project that will provide an insightful study of an idea, theory, issue, or problem.

**Professional Aspects of Nurse Anesthesia II**

3 cr.

11591 NUR-9028-030 (5/28-7/28) *TBA*

Ms. Wildgust

Professional issues, rights and responsibilities of Nurse Anesthetists. Restricted to Nurse Anesthetists students.

**Qualitative Research Designs and Methods**

3 cr.

11592 NUR-9504-030 (5/28-7/28) *MTWThF 9:00 a.m.-3:59 p.m.*

Dr. Smeltzer SM020

Qualitative approaches to research including phenomenology, hermeneutics, grounded theory, ethnography, case study, historical research, combined methods and issues of rigor and confirmability. Restricted to Ph.D. students. The first part of this course will run from May 28 to June 13, 2008 in a classroom setting.

**Philosophy of Higher Education**

3 cr.

11593 NUR-9509-030 (5/28-7/28) *MTWThF 4:00-8:00 p.m.*

Dr. Hill SM020

The relation of major philosophical themes and trends up to the twenty-first century to concepts and issues in higher education. Restricted to Ph.D. students. The first part of this course will run from May 28 to June 13, 2008 in a classroom setting.

**Advanced Research Design**

3 cr.

11594 NUR-9514-030 (5/28-7/28) *MTWThF 9:00 a.m.-4:00 p.m.*

Dr. Copel SM019

Fourth in a sequence of courses that provide structure for development of the dissertation proposal. Restricted to Ph.D. students. The first part of this course will run from May 28 to June 13, 2008 in a classroom setting. Prerequisite: NUR 9513.

**PEACE & JUSTICE**

Dr. Werpehowski, *Director*  
Office: Ground Floor, Sullivan  
Phone: 610-519-4499

**Race, Class, and Gender**

3 cr.

11649 PJ-5300-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

Ms. Anthony SU-CPJ

A critical examination of the social constructions of race, class, gender and sexuality in U.S. culture and the injustices and inequalities that arise from them. Strategies, policies, and procedures for change are also examined. Writing Enriched. Diversity I. Diversity II. Africana Studies. Peace and Justice. Women's Studies.

## PHILOSOPHY

Dr. Carvalho, *Chair*  
Office: 108 St. Augustine  
Phone: 610-519-4690

### Introduction to Philosophy

3 cr.

11627 PHI-1050-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Dr. Klein B023A

11631 PHI-1050-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.*

Dr. Busch V201A

The issues of God, persons and nature, and knowledge. Readings include sources which give special consideration to the classical and Christian perspectives.

11628 PHI-1050-015 (5/28-6/25)

Dr. Brogan

11629 PHI-1050-016 (5/28-6/25)

Dr. Brogan

11630 PHI-1050-017 (5/28-6/25)

Dr. Brogan

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### Logic and Critical Thinking

3 cr.

11632 PHI-2010-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.*

Staff B3041

The study of logic and critical thinking. Topics include: argument identification and analysis; formal and informal logic; fallacies; inductive argument; the role of argumentative structures in various philosophical traditions.

### Ethics for Health Care Professionals

3 cr.

11633 PHI-2115-030 (5/28-7/28) *MW 6:00-8:00 p.m.*

Staff B038

Rights and duties of the patient/client and the members of the health care team, death and dying, genetic engineering and manipulation.

### Philosophy and Literature

3 cr.

11634 PHI-2760-025 (6/27-7/28)

Dr. Lang

11635 PHI-2760-026 (6/27-7/28)

Dr. Lang

11636 PHI-2760-027 (6/27-7/28)

Dr. Lang

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### Internship

3 cr.

11637 PHI-2993-010 (5/28-6/25) *TBA*

Dr. Carvalho

Departmentally related and academically creditable field work experience. See department chair for more information. Permission of Department Chair required.

### Internship

6 cr.

11638 PHI-2996-010 (5/28-6/25) *TBA*

Staff

Departmentally related and academically creditable field work experience. See department chair for more information.

### Philosophy and Film

3 cr.

11639 PHI-4150-015 (5/28-6/25)

Dr. Carvalho

11640 PHI-4150-016 (5/28-6/25)

Dr. Carvalho

11641 PHI-4150-017 (5/28-6/25)

Dr. Carvalho

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### Independent Study and Research

3 cr.

11642 PHI-4990-010 (5/28-6/25) *TBA*

Dr. Carvalho

11643 PHI-4990-020 (6/27-7/28) *TBA*

Dr. Carvalho

Topic chosen by the student and approved by the professor and the chair.

## GRADUATE COURSES

### Independent Study I

3 cr.

11644 PHI-8830-030 (5/28-7/28) *TBA*

Dr. Brogan

Independent research on a topic chosen by the student and approved by the professor and the Graduate Director.

### Independent Study II

3 cr.

11645 PHI-8835-030 (5/28-7/28) *TBA*

Dr. Brogan

Independent research on a topic chosen by the student and approved by the professor and the Graduate Director.

### Doctoral Dissertation II

3 cr.

11646 PHI-9020-030 (5/28-7/28) *TBA*

Dr. Brogan

### Dissertation Continuation

0 cr.

11647 PHI-9081-030 (5/28-7/28) *TBA*

Dr. Brogan

## PHYSICS

Dr. Maurone, *Chair*

Office: 347 Mendel

Phone: 610-519-4860

### College Prep Physics at a Distance

0 cr.

11650 PHY-0100-010 (5/28-6/25) *TBA*

Dr. Devinney

Restricted to incoming freshmen with declared science majors whose acceptance was conditional on completing a high school physics course prior to enrollment in their first semester of college. Assumes no physics background and emphasizes concepts as background for a first year of college physics.

### General Physics I

3 cr.

11651 PHY-1100-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.*

Dr. Strieb M258

11652 PHY-1100-011 (5/28-6/25) *MTWThF 8:30-10:20 a.m.*

Dr. Arrison M341

Mechanics, heat, and sound. Recommended for Biology majors. Corequisite: PHY 1101. Prerequisite: (MAT 1230 Concurrency: Yes or MAT 1320 Concurrency: Yes or MAT 1330 Concurrency: Yes or MAT 1500 Concurrency: Yes)

### General Physics I Laboratory

1 cr.

11653 PHY-1101-010 (5/28-6/25) *MWTh 10:30 a.m.-1:00 p.m.*

Dr. Arrison M257

11654 PHY-1101-011 (5/28-6/25) *MWTh 10:30 a.m.-1:00 p.m.*

Dr. Zamani M259

11670 PHY-1101-012 (5/28-6/25) *MWTh 10:30 a.m.-1:00 p.m.*

Staff M247

Selected experiments in mechanics, heat, and sound. Recommended for Biology majors. PHY 1100 Concurrency: Yes

### General Physics II

3 cr.

11669 PHY-1102-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.*

Dr. Strieb M258

11668 PHY-1102-021 (6/27-7/28) *MTWThF 8:30-10:20 a.m.*

Dr. Hones M260

A continuation of PHY 1100; light, electricity and modern physics. Recommended for Biology majors. Prerequisites: PHY 1100 and (MAT 1315 Concurrency: Yes or MAT 1325 Concurrency: Yes or MAT 1335 Concurrency: Yes or MAT 1505 Concurrency: Yes).

### General Physics II Laboratory

1 cr.

11666 PHY-1103-020 (6/27-7/28) *MWTh 10:30 a.m.-1:00 p.m.*

Dr. Hones M257

11665 PHY-1103-021 (6/27-7/28) *MWTh 10:30 a.m.-1:00 p.m.*

Dr. Zamani M259

11663 PHY-1103-022 (6/27-7/28) *MWTh 10:30 a.m.-1:00 p.m.*

Staff M247

Selected experiments in light and electricity. Recommended for Biology majors. Prerequisite: Undergraduate level PHY 1101.

**The Concept of Light** 3 cr.  
11661 PHY-1500-025 (6/27-7/28) Dr. Siah  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Gravity** 3 cr.  
11659 PHY-1502-015 (5/28-6/25) Dr. Siah  
This is a Distance Learning section of this course. Please see page 75 for more information.

**University Physics: Mechanics** 3 cr.  
11658 PHY-2410-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* Dr. Phares M284  
Vectors, kinematics, and dynamics of particles, rigid bodies, and fluids. Recommended for Science majors. Prerequisite: MAT 1500, Concurrency: Yes.

**Lab: Mechanics** 1 cr.  
11657 PHY-2411-010 (5/28-6/25) *MWTh 10:30 a.m.-1:00 p.m.* Staff M254  
Selected experiments demonstrating the fundamental principles of Mechanics and Waves with emphasis on techniques of measurements and data analysis. Recommended for Science majors. Prerequisite: MAT 1550 Concurrency: Yes.

**University Physics: Electricity & Magnetism** 3 cr.  
11656 PHY-2412-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* Dr. Besson M256  
Electrostatics, DC circuits, magnetism, and AC circuits. Recommended for Science majors. Prerequisites: PHY 2410 and MAT 1505 Concurrency: Yes.

**Lab: Electricity & Magnetism** 1 cr.  
11655 PHY-2413-020 (6/27-7/28) *MWTh 10:30 a.m.-1:00 p.m.* Dr. Besson M254  
Recommended for Science majors.

## POLITICAL SCIENCE

Dr. Gustafson, *Chair*  
Office: 202 St. Augustine  
Phone: 610-519-4710

**Introduction to American Government** 3 cr.  
11660 PSC-1100-025 (6/27-7/28) Dr. Thompson  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Introduction to International Relations** 3 cr.  
11662 PSC-1200-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Malik SA110  
Factors in relations between states; the nature, elements, and role of power; problems faced by the modern state system.

**Internship Elective** 3 cr.  
11664 PSC-1903-030 (5/28-7/28) *TBA* Dr. Gustafson  
Permission of Chairperson required.

**Internship Elective** 6 cr.  
11667 PSC-1906-030 (5/28-7/28) *TBA* Dr. Gustafson  
Permission of Chairperson required.

**Black Politics** 3 cr.  
11672 PSC-2750-015 (5/28-6/25) Mr. Pryor  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Political Economy of Black America** 3 cr.  
**11675 PSC-2775-025 (6/27-7/28)** Mr. Pryor  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Internship** 3 cr.  
11676 PSC-2993-030 (5/28-7/28) TBA Dr. Gustafson  
Internship. Permission of Chairperson required.

**Internship** 6 cr.  
11677 PSC-2996-030 (5/28-7/28) TBA Dr. Gustafson  
Internship work experience in politics. Permission of Chairperson required.

**Latin America** 3 cr.  
**11678 PSC-4750-015 (5/28-6/25)** Dr. Gustafson  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Topic: Development and Aid** 3 cr.  
**11679 PSC-4875-035 (5/28-7/28)** Dr. Toyoda  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Ireland** 3 cr.  
**11680 PSC-4950-025 (6/27-7/28)** Dr. Thompson  
This is a Distance Learning section of this course. Please see page 75 for more information.

**Principles of Politics** 3 cr.  
11681 PSC-6120-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Warrick B034  
An analytical, rather than historical, approach to the principles of politics. Justice, liberty, equality, purpose of the state, constitutionalism, political prudence, separation of powers, etc.

**Independent Study and Research** 3 cr.  
11682 PSC-6950-030 (5/28-7/28) TBA Dr. Gustafson  
Individual students with specific interests work on a tutorial basis with an appropriate professor. Permission of Chairperson required.

## GRADUATE COURSES

**Special Topic: Three Rival Versions of Justice** 3 cr.  
11683 PSC-8000-020 (6/27-7/28) *MW 5:15-8:15 p.m.* Dr. Smith SA410  
For additional information, please contact the Department of Political Science.

**Legislative Branch** 3 cr.  
11685 PSC-8100-010 (5/28-6/25) *TTh 5:15-8:15 p.m.* Dr. Langran B034  
Strong points and shortcomings of the Congress of the United States, and prospects of Congressional reform.

**Thesis Direction** 6 cr.  
11687 PSC-9061-030 (5/28-7/28) TBA Dr. Gusafson  
Permission of Chairperson required.

**Thesis Continuation** 0 cr.  
11688 PSC-9080-030 (5/28-7/28) TBA Dr. Gustafson  
Permission of Chairperson required.

**Readings and Research in Political Science** 3 cr.  
11689 PSC-9800-010 (5/28-6/25) TBA Dr. Gustafson  
11690 PSC-9800-020 (6/27-7/28) TBA Dr. Gustafson

11691 PSC-9800-030 (5/28-7/28) TBA

Dr. Gustafson

An individual student with a specific interest which cannot be satisfied by a regular course is allowed to work on a tutorial basis with a particular professor. Permission of Chairperson required.

## PSYCHOLOGY

Dr. Toppino, *Chair*  
Office: 334 Tolentine  
Phone: 610-519-4720

### General Psychology

3 cr.

11606 PSY-1000-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Staff T216

11607 PSY-1000-020 (6/27-7/28) *MTWThF 12:30-2:20 p.m.*

Staff T216

11608 PSY-1000-030 (5/28-7/28) *TTh 6:00-8:00 p.m.*

Staff T216

Introductory examination of the fundamental concepts of psychology, with particular emphasis on the description of normal human behavior and those factors that underlie it. **Prerequisite to all other courses in Psychology.**

### Developmental Psychology

3 cr.

11609 PSY-2200-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.*

Staff T216

11610 PSY-2200-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.*

Staff T216

Theory and research on social/personality, physical, and cognitive/intellectual changes from infancy through old age. Prerequisite: PSY 1000 or HON 1811.

### Psychology of Personality

3 cr.

11611 PSY-2500-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Staff T210

11612 PSY-2500-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.*

Staff T309

Theories, dynamics, and structure of personality. Students cannot receive credit for this course and PSY 5200. Prerequisite: PSY 1000 or HON 1811.

### Industrial and Organizational Psychology

3 cr.

11613 PSY-2700-015 (5/28-6/25) **Restricted to Part-Time Studies Students. Dr. Stokes**

11614 PSY-2700-X15 (5/28-6/25) **Restricted to non Part-Time Studies Students.**

**Dr. Stokes**

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### \*\*Leadership

1 cr.

11615 PSY-3005-010 (6/13-6/14) *F 5:00-9:00 p.m.*

Ms. Quisenberry T216

*S 9:00 a.m.-5:00 p.m.*

This course provides the participant with current insights into leadership and focuses on leadership as a relational process occurring among members in groups and organizations who have a common goal or purpose. This course will provide students with the opportunity to assess their own leadership style and skills; expand their skills that will increase the students' effectiveness as leaders; apply these skills through practice and receive immediate feedback on their skills/effectiveness; and synthesize leadership theory into application for everyday life. Offered S/U only.

### \*\*Interpersonal Communication

1 cr.

11617 PSY-3005-020 (6/27-6/28) *F 5:00-9:00 p.m.*

Mr. Murtha T216

*S 9:00 a.m.-5:00 p.m.*

This course provides the participant skills in effective inter-personal communication including such topics as listening, clear expression, and nonverbal communication. Offered S/U only.

\*\*Only three 1-credit seminars can be applied toward graduation credit. These seminars are only offered in the summer and fall terms. They cannot be used to fulfill Psychology electives.

**\*\*Memory Development** 1 cr.  
 11618 PSY-3005-021 (7/11-7/12) *F 5:00-9:00 p.m.* Dr. Cozzens T216  
*S 9:00 a.m.-5:00 p.m.*  
 This course provides the participant with specific skills and techniques which improve memory performance in such areas as names and faces, numbers, lists, and textbook materials. Offered S/U only.

**\*\*Time Management** 1 cr.  
 11616 PSY-3005-022 (7/18-7/19) *F 5:00-9:00 p.m.* Dr. Stieber T216  
*S 9:00 a.m.-5:00 p.m.*  
 This course provides the participant with techniques and insights which foster the investment theory of time management; how to get more of what you want from the time you have to invest. Course topics include planning, prioritizing, goal setting, monitoring, eliminating procrastination, handling interruptions, and managing crises. Offered S/U only.

**Abnormal Psychology** 3 cr.  
 11619 PSY-5500-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* Staff T217  
 Classification, etiology, and treatment of mental and behavioral disorders with emphasis on contemporary theory and research. Prerequisites: (PSY 1000 or HON 1811) and PSY 4050.

**Undergraduate Research** 3 cr.  
 11620 PSY-5900-020 (6/27-7/28) *TBA* Dr. Toppino  
 Supervised research project and report. Student may register for PSY 5900 more than once; however, only 3 hours of research can be applied toward the degree requirements in Psychology. Cognitive Science with approval. Permission of Instructor required. Prerequisites: PSY 1000 or HON 1811.

## GRADUATE COURSES

**Psychology of Organizational Change** 3 cr.  
 11621 PSY-8875-030 (5/28-7/28) *T 6:15-9:15 p.m.* Dr. Bush ACHUEB123  
 11622 PSY-8875-031 (5/28-7/28) *W 6:15-9:15 p.m.* Dr. Bush ACHUEB123  
 Diagnostic techniques for identifying organizational problems. Strategic organizational change for increased quality, productivity and employee satisfaction. These courses will be held in Huebner Hall at The American College.

**Individual Research** 3 cr.  
 11623 PSY-9031-030 (5/28-7/28) *TBA* Dr. Toppino  
 Individual research project conducted under the direction of a Psychology faculty member. Restricted to Psychology Graduate Students. Permission of Instructor required.

**Thesis Direction I** 3 cr.  
 11624 PSY-9032-030 (5/28-7/28) *TBA* Dr. Toppino  
 Restricted to Psychology Graduate Students.

**Thesis Direction II** 3 cr.  
 11625 PSY-9033-030 (5/28-7/28) *TBA* Dr. Toppino  
 Restricted to Psychology Graduate Students.

**Thesis Continuation** 0 cr.  
 11626 PSY-9080-030 (5/28-7/28) *TBA* Dr. Toppino  
 Restricted to Psychology Graduate Students.

**\*\*Only three 1-credit seminars can be applied toward graduation credit. These seminars are only offered in the summer and fall terms. They cannot be used to fulfill Psychology electives.**



## MASTERS OF PUBLIC ADMINISTRATION

Dr. Kelleher, *Director*  
Office: 202 St. Augustine  
Phone: 610-519-8901

### Structure & Theory of Organizations

3 cr.

11597 MPA-8002-030 (5/28-7/28) *T 5:45-8:40 p.m.*

Dr. R. Jacobs, O.S.A. B2072

The study of the similarities and differences in various formal and complex organizations, the structures and dynamics of these organizations, and the theories applicable to such organizations.

### Management Internship

3 cr.

11598 MPA-8010-030 (5/28-7/28) *TBA*

Dr. Kelleher

Administrative field experience in an agency or organization. Permission of the MPA Director required.

### Individual Research I

3 cr.

11599 MPA-8012-030 (5/28-7/28) *TBA*

Dr. Kelleher

An individual research project under the direction of a public administration faculty member. Permission of the MPA Director and consent of the faculty member required.

### Individual Research II

3 cr.

11600 MPA-8013-030 (5/28-7/28) *TBA*

Dr. Kelleher

An individual research project under the direction of a public administration faculty member. Permission of the MPA Director and consent of the faculty member required.

### Decision Making

3 cr.

11601 MPA-8100-020 (6/27-7/28) *TTh 5:45-8:40 p.m.*

Dr. Hill B034

The study of the decision making behavior of individuals, work-groups, departments, and complex organizations. The securing of consistency, the coordinating of various planning units, and the economizing of planning efforts in regard to decision making will also be included.

### Administrative Communication

3 cr.

11603 MPA-8200-030 (5/28-7/28) *M 5:45-8:40 p.m.*

Dr. Trainer B026

The study of the communication process within and among complex organizations and the listening, writing, and speaking skills needed to promote better relations among individuals and organizations.

### Topic: Performance Measurement

1 cr.

11604 MPA-8299-010 (6/7, 14, 21) *S 8:45 a.m.-12:00 p.m.*

Mr. Olpere SA210

Learn why economic development initiatives are important to local governments and how to identify and capitalize on economic development opportunities by using good planning, specific strategies and leveraging incentives. Three one-credit courses may be used to substitute for a three-credit elective.

### Topic: Economic Development Strategies

1 cr.

11605 MPA-8299-020 (7/12, 19, 26) *S 8:45 a.m.-12:00 p.m.*

Mr. Canavan SA210

Learn why economic development initiatives are important to local governments and how to identify and capitalize on economic development opportunities by using good planning, specific strategies and leveraging incentives. Three one-credit courses may be used to substitute for a three-credit elective.

### Leadership Ethics

3 cr.

11648 MPA-8300-030 (5/28-7/28) *W 5:45-8:40 p.m.*

Dr. R. Jacobs, O.S.A. B2072

Examines assumptions implicit in various organizational designs and highlights the importance of fidelity to value-based decision making.

## SOCIOLOGY

Dr. Arvanites, *Chair*  
Office: 204 St. Augustine  
Phone: 610-519-4740

### **Introduction to Sociology**

3 cr.

11490 SOC-1000-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Dr. Jones B026

Introduction to the analysis of social behavior; emphasis upon socialization, collective and group behavior.

### **11491 SOC-2000-025 (6/27-7/28)**

**Dr. Pattnayak**

**This is a Distance Learning section of this course. Please see page 75 for more information.**

### **Sociology of the Family**

3 cr.

11493 SOC-2300-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.*

Dr. Shai B026

Institutional organization of mate selection, courtship, and marriage relationships in American society; family relationships and functions; family disorganization and change. Diversity II, Women's Studies.

### **Perspectives on United States Poverty**

3 cr.

**11492 SOC-2950-015 (5/28-6/25)**

**Dr. DeFina**

**This is a Distance Learning section of this course. Please see page 75 for more information.**

### **Internship**

3 cr.

11494 SOC-2993-030 (5/28-7/28) *TBA*

Dr. Arvanites

Internship.

### **Internship**

6 cr.

11495 SOC-2996-030 (5/28-7/28) *TBA*

Dr. Arvanites

Internship.

## STUDIO ART AND MUSIC

Fr. Cannuli, O.S.A., *Chair*  
Office: 487 St. Augustine  
Phone: 610-519-4760

### **Basic Drawing Techniques**

3 cr.

11485 SAR-2021-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Ms. Clay V207

A foundation course in drawing, emphasizing visual concepts through work in a variety of media including charcoal, pencil and ink. Direct observation of the model, composition, perspective, and theory. Fine Arts.

## THEATRE

Fr. Cannuli, O.S.A., *Chair*  
Office: 487 St. Augustine  
Phone: 610-519-4760

### **Fundamental Principles of Acting**

3 cr.

11496 THE-2029-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.*

Staff

Traditional acting theories and basic techniques: games, improvisation, sensory awareness exercises and beginning work on scenes. Fine Arts.

## GRADUATE COURSES

### Theatre Topics

3 cr.

11761 THE-7070-010 (5/28-6/25) *MTTh 4:30-7:30 p.m.* Dr. Kairschner V206  
Seminar course focusing on a specialized area of theatre studies, (e.g., avant-garde, feminist, Asian, Melodrama), combining elements of theatre history, dramatic literature and criticism, as well as performance and production aspects of live theatre.

### Theatre Production Practicum

0 cr.

11497 THE-8025-010 (5/28-6/25) *TBA* Fr. Cannuli  
11498 THE-8026-010 (5/28-6/25) *TBA* Fr. Cannuli  
11499 THE-8027-010 (5/28-6/25) *TBA* Fr. Cannuli  
Significant and responsible participation in department production program.

### Special Studies – Research

3 cr.

11500 THE-8523-030 (5/28-7/28) *TBA* Fr. Cannuli  
Advanced research in theatre history, dramaturgy, literature or criticism on a tutorial basis. Includes public presentation of a research project.

### Special Studies – Acting

3 cr.

11501 THE-8525-030 (5/28-7/28) *TBA* Fr. Cannuli  
Advanced scene work in a range of acting styles on a tutorial basis. Includes public performance of a dramatic program.

## THEOLOGY AND RELIGIOUS STUDIES

Dr. Prusak, *Chair*

Office: 107 St. Augustine

Phone: 610-519-4730

### Christian Theology: An Introduction

3 cr.

11502 THL-1050-020 (6/27-7/28) *MTWThF 8:30-10:20 a.m.* Dr. Werpehowski B2044  
An introduction to Christianity from the viewpoint of Christian theology, "faith seeking understanding". A theological study of the world view and core narrative of Christianity as found in its scriptures and in its traditions of practice and belief. Includes an orientation to academic study of religion and to theological method. **Only one 1050/1051 course may be taken. Either is a prerequisite for all other THL classes.**

### New Testament Survey

3 cr.

11503 THL-2300-010 (5/28-6/25) *MTWThF 8:30-10:20 a.m.* Dr. Spitaler B2044  
Critical analysis of New Testament texts; structure, meaning historical development, continuing vitality and application; introduction to transmission of traditions, formation of New Testament canon, use of textual, source, form, redaction, and literary methods. Prerequisite: THL 1050 or HON 1825 or HON 1003 or HON 1053 or THL 1051 or HON 1827.

### Synoptic Gospels

3 cr.

11504 THL-2310-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Spitaler B2044  
Critical analysis of Matthew, Mark and Luke; structure, meaning, historical development, continuing vitality and application; use of textual, source, form, redaction and literary methods. Prerequisite: THL 1050 or HON 1825 or HON 1003 or HON 1053 or THL 1051 or HON 1827.

### Liberation Theologies

3 cr.

11505 THL-3740-010 (5/28-6/25) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Zavarich B2045  
Theologies emerging from specific struggles for liberation in Latin American, Africa, Asia, and North America; their context, content, and critique. Prerequisite: THL 1050 or HON 1003 or HON 1053 or HON 1825 or HON 1827.

### War and Morality

3 cr.

11506 THL-4310-020 (6/27-7/28) *MTWThF 10:30 a.m.-12:20 p.m.* Dr. Werpehowski B2044

Just war, pacifism, and feminist critique—three Christian traditions of reflection on ethics and warfare; conflict and overlap across these traditions; close examination of historical illustrations of the conduct of war. Prerequisite: THL 1050 or HON 1825 or HON 1003 or HON 1053 or THL 1051 or HON 1827.

### **Religion and Literature**

**11709 THL-5800-X15 (5/28-6/25)**

**3 cr.**

**Dr. Hollis**

**This is a Distance Learning section of this course. Please see page 75 for more information.**

### **Death and Dying**

**11507 THL-5950-030 (5/28-7/28) MW 6:00-8:00 p.m.**

**3 cr.**

**Dr. Prusak B3040**

Psychological, philosophical, and theological contributions to the search for meaning regarding dying, death, and belief in afterlife; practical issues; biblical perspectives; the views of other religions; contemporary Christian theological reflections. Ethics concentration. Prerequisite: THL 1050 or HON 1825 or HON 1003 or HON 1053 or THL 1051 or HON 1827.

### **Independent Study**

**11508 THL-6400-020 (6/27-7/28) TBA**

**3 cr.**

**Dr. Prusak**

Permission of chairperson required. Prerequisite: THL 1050 or HON 1825 or HON 1003 or HON 1053 or THL 1051 or HON 1827.

## **GRADUATE COURSES**

### **Topic: Epistle to the Romans**

**11509 THL-8190-010 (5/28-6/25) MTWThF 12:30-2:20 p.m.**

**3 cr.**

**Dr. Spitaler B2044**

Specialized treatment of a particular area in this field; please see Department announcements.

### **Special Topic: In Dialogue with Augustine**

**11510 THL-8490-020 (7/21-7/25) MTWThF 9:00 a.m.-12:00 p.m.**

**3 cr.**

**Dr. Cameron SA300**

*MTWThF 2:00-5:00 p.m.*

**Dr. Martin, O.S.A. SA300**

Specialized treatment of a particular area in this field; please see Department announcement on page 88 of this summer catalog.

### **Directed Research**

**11511 THL-9000-020 (6/27-7/28) TBA**

**3 cr.**

**Dr. Spitaler**

In exceptional cases and for sufficient reason, a student may register for directed research, after consultation with the Director, who will decide the merits of the case.

### **Thesis Direction I**

**11512 THL-9031-020 (6/27-7/28) TBA**

**3 cr.**

**Dr. Spitaler**

## **WOMEN'S STUDIES**

**Dr. Kerrison and Dr. Sewell, Co-Directors**

**Office: 206D Old Falvey**

**Phone: 610-519-3815**

The following courses offered in the 2008 Summer Sessions satisfy the Women's Studies requirements for a Minor or a Concentration. Please contact the Women's Studies Department for more information on the Women's Studies Program.

### **Gender and Communication**

**11326 COM-3406-015 (5/28-6/25)**

**11327 COM-3406-016 (5/28-6/25)**

**3 cr.**

**Dr. Bowen**

**Dr. Bowen**

**These are Distance Learning sections of this course. Please see page 75 for more information.**

### **Race, Class and Gender**

11649 PJ-5300-030 (5/28-7/28) TTh 6:00-8:00 p.m.

3 cr.  
Ms. Anthony SU-CPJ  
A critical examination of the social constructions of race, class, gender, and sexuality in U.S. culture and the injustices and inequalities that arise from them. Strategies, policies, and procedures for change are also examined. Writing Enriched. Diversity I. Diversity II. Africana Studies. Women's Studies. Peace and Justice.

### **Sociology of the Family**

11493 SOC-2300-020 (6/27-7/28) MTWThF 10:30 a.m.-12:20 p.m.

3 cr.  
Dr. Shai B026  
Institutional organization of mate selection, courtship, and marriage relationships in American society; family relationships and functions; family disorganization and change. Diversity II. Women's Studies.

## **INTERNSHIP PROGRAM**

Ms. Ebert, *Director*  
Office: 420 St. Augustine  
Phone: 610-519-4232

The College of Arts and Sciences offers qualified matriculated students of the University the opportunity to integrate theory and research with practical experience through the Internship Program. The Program is designed to help students build a relationship with professionals in the private and public sectors, make career choices, experience entry level activities, discover long-term interests and aspirations. The Internship Program maintains the academic integrity of the liberal arts and sciences curriculum by careful supervision of the student. An internship might take place nationally, and normally parallel the summer sessions in duration. The amount of credit awarded depends on the nature and extent of the internship, and the needs and interests of the student. The internship application process begins with the director of the program.

## **DISTANCE LEARNING**

For summer 2008, Villanova summer sessions will offer forty-six undergraduate courses and nine graduate courses which may be completed away from the campus while still earning Villanova credits toward your degree. These courses will use computers, the Internet, e-mail, CDrom or a combination of these formats. Students should contact the faculty member concerning specific hardware/software requirements before registering. Please contact the department for information on registering for the graduate courses.

## **UNDERGRADUATE COURSES**

### **Principles of Financial Accounting**

11148 ACC-1101-035 (5/28-7/28)

11149 ACC-1101-036 (5/28-7/28)

3 cr.  
Dr. Derstine  
Dr. Derstine  
Understanding business by being able to understand the financial statements. Accounting concepts, transaction analysis, analytical procedures, valuation and allocation, revenue recognition, expense matching, and cash flow analysis—operating, investing, and financing. Includes appropriate use of technology. For additional information, please contact Dr. Derstine at robert.derstine@villanova.edu.

### **Principles of Managerial Accounting**

11152 ACC-1102-035 (5/28-7/28)

3 cr.  
Dr. Licata  
How management accounting information can be used to help firms achieve strategic goals and profitability objectives. Use of an entrepreneurial perspective to examine how managers apply risk measurement and management techniques to business planning and control systems. Case-based learning to help students develop communication, technology, and teamwork. Prerequisite: ACC 1101 or HON 1101. For additional information, please contact Dr. Licata at michael.licata@villanova.edu.

### **Accounting Information Systems**

11154 ACC-2340-035 (5/28-7/28)

11155 ACC-2340-036 (5/28-7/28)

This course offers both a conceptual overview and hands-on experience with a variety of AIS related material. Topics covered include: Semantic modeling and event driven accounting information systems (AIS); development, documentation, control and audit of AIS, with particular reference to the COBIT framework; an overview of XBRL and its role in financial reporting; the use of database management software and accounting software in developing modern AIS. Prerequisites: (ACC 1102 or HON 1102) and (DIT 1006 or MIS 1006 or HON 1016). For additional information, please contact Dr. Borden at james.borden @villanova.edu.

3 cr.

Dr. Borden

Dr. Borden

### **Human Physiology - How Your Body Works**

11196 BIO-1655-025 (6/27-7/28)

11197 BIO-1655-035 (5/28-7/28)

This on-line course examines how the human body works. The course is divided into three categories: (1) lecture, (2) laboratory and (3) term papers. The *lecture* portion of the course is delivered over the web and uses audio with a combination of text, diagrams, movies and animated sequences. Each lecture usually starts with an article from a web source like CNN-Health. Sufficient physiology is then presented for you to understand the article. The idea is to present lectures as a series of related topics and issues rather than a general review of physiology. Each lecture is designed to allow you to progress at your own pace, and within your own time frame. Each of the four lecture exams is done on-line and within a programmed time frame; each counts 15% of the final grade. The on-line *laboratory* experience uses simulations, animations and movies of real experiments. Students are expected to send a summary of their measurements and data, placing their observations into the framework of the knowledge they have gathered in *class*. Graded reports are then returned and they count 20% of the final course grade. The two web-based *term papers* revolve around some aspect of body dysfunction and each is worth 10% of the final grade. Although local students are welcome to come to Villanova to talk with the instructor there are no requirements for an initial orientation meeting. All communication is done via e-mail, the bulletin board, or the telephone, and daily (usually evening) *office hours* are posted. Each student can monitor their progress through a password-protected page where their grades are posted. Students require access to an on-line computer and a web browser with the (free) Flash plug-in. All programs have been written in HTML and Flash, and (to date) no problems have been encountered with fire walls. A course description and orientation to this course can be found at the following URL: <http://www10.homepage.villanova.edu/phil.stephens>. For additional information, please contact Dr. Stephens at phil.stephens@villanova.edu.

4 cr.

Dr. Stephens

Dr. Stephens

### **Theories of Persuasion**

11321 COM-2280-015 (5/28-6/25)

Presents the theoretical processes by which communication influences the attitudes, beliefs, and behaviors of message recipients. Both rhetorical and social scientific approaches to persuasion are examined. Application is made to the areas of advertising, public relations, politics and health communication. Media/Film Studies. For additional information, please contact Mr. Arnold at derek.arnold@villanova.edu.

3 cr.

Mr. Arnold

### **Theories of Visual Communication and Culture**

11322 COM-2340-025 (6/27-7/28)

Introduction to the major theoretical and methodological approaches to the study of images as communicative phenomena. Explores the philosophical and strategic implications of these approaches and applies them both to the analysis and production of visual messages in a variety of media and contexts. For additional information, please contact Dr. Coonfield at gordon.coonfield@villanova.edu.

3 cr.

Dr. Coonfield

### **Gender and Communication**

11326 COM-3406-015 (5/28-6/25)

11327 COM-3406-016 (5/28-6/25)

3 cr.

Dr. Bowen

Dr. Bowen

Communication of women and men against the backdrop of society and feminism in such communicative contexts as families, schools, friendships and relationships, organizations, media, and technology. Women's Studies Concentration/Minor. Interpersonal/Organizational Studies. Diversity II. Writing Enriched. Prerequisites: COM 2200 or 2240 or 2280 or 2300 or 2340 or 2400 or 2440. For additional information, please contact Dr. Bowen at sheryl.bowen@villanova.edu.

### **Discrete Structures**

11340 CSC-1300-035 (5/28-7/28)

Mathematical structures that support computer science: sets, logic and proof, mathematical induction, relations, functions, counting techniques, boolean algebra, matrices, graphs and trees. Prerequisites: (CSC 1051 Concurrency: Yes or ECE 1620 Concurrency: Yes). Online class sessions will be held Tuesday nights from 7:30-9:00 p.m. For additional information, please contact Ms. Metzger at sue.metzger@villanova.edu.

3 cr.

Ms. Metzger

### **Introduction to Criminal Justice**

11699 CRJ-1000-015 (5/28-6/25)

This course presents an overview of the criminal justice system. It focuses on the nature, operation and critical issues of law enforcement, the courts and corrections. For additional information, please contact the Department of Sociology and Criminal Justice at 610-519-4740.

3 cr.

Dr. Arvanites

### **Operations Management**

11700 DIT-1141-015 (5/28-6/25)

11701 DIT-1141-016 (5/28-6/25)

11702 DIT-1141-017 (5/28-6/25)

Concepts and techniques for problems in manufacturing and service organizations. Topics: decision-making, forecasting, resource allocation, project management, quality, materials management, technology, and strategy. Prerequisite: DIT 2010 or HON 2010 or STA 2108 or MAT 1235. For additional information, please contact the Management Department at 610-519-6924.

3 cr.

Dr. Chaudhry

Dr. Wright

Dr. Wright

### **Business Statistics**

11697 DIT-2010-015 (5/28-6/25)

11698 DIT-2010-016 (5/28-6/25)

Statistical concepts and methods used in business and economics, including Probability, Discrete Probability, Sampling Distributions, Confidence Intervals, Hypothesis Testing, Regression Analysis, and Chi-Square Distribution, (ANOVA). For additional information, please contact the Economics Department at 610-519-4370.

3 cr.

Staff

Staff

### **Introduction to Microeconomics**

11358 ECO-1001-025 (6/27-7/28)

The price system, demand and supply analysis; the production process; analysis of market structures. For additional information, please contact the Economics Department at 610-519-4370.

3 cr.

Staff

### **Introduction to Macroeconomics**

11359 ECO-1002-015 (5/21-6/25)

The economic system and its fundamental principles. The economic functions of government, monetary and fiscal policy, and international trade. For additional information, please contact Fr. Farrell at john.farrell@villanova.edu.

3 cr.

Fr. Farrell, O.S.A

### **International Economics**

11366 ECO-3109-015 (5/28-6/25)

11367 ECO-3109-016 (5/28-6/25)

11368 ECO-3109-017 (5/28-6/25)

Comparative advantage; gains from foreign trade; Heckscher-Ohlin doctrine; Stolper—Samuelson and Specific Factor Model; Balance of Payments theory and practice; tariff theory and policy; foreign exchange rates determination, foreign exchange systems, economic

3 cr.

Dr. Wolnicki

Dr. Wolnicki

Dr. Wolnicki

integration; international financial crises and system reform, open economy macroeconomics, poverty, international organizations. Prerequisites: (ECO 1001 or HON 1080) and (ECO 1002 or HON 1081). For additional information, please contact Dr. Wolnicki at miron.wolnicki@villanova.edu.

### **Fundamentals of Electrical Engineering II**

11123 ECE-2054-D35 (5/28-7/28)

3 cr.

Dr. Mercede

This is the second course of a year-long sequence on the fundamentals of Electrical Engineering. The topics of this second course are second-order circuits, ac circuit analysis, ac power and three-phase circuits, frequency response plots, resonance, and magnetically-coupled coils and transformers. This course will be delivered on a live broadcast and lecture-on-demand basis entirely over the Internet. Prerequisite: ECE 2052. For additional information, please contact Dr. Frank Mercede by phone at (610) 519-4982 or by e-mail at frank.mercede@villanova.edu.

### **Fundamentals of MATLAB**

11124 ECE-2409-D15 (5/28-6/25)

2 cr.

Dr. Mobasser

Matlab is the premier language for many engineering and scientific computations. As a matrix-oriented language, the primary goal of this course is to learn to write efficient and tight code vectorized for quick execution. Other topics include 2D and 3D plotting, graph customization, importing and processing of multidimensional arrays such as images, video and CT scans. The course is delivered entirely over the internet via WebCT. Lectures are delivered in high quality digital video synchronized to class powerpoint slides. For best results students are expected to have access to broadband connection. For additional information, please contact Dr. Mobasser at bijan.mobasser@villanova.edu or 610 519-4958.

### **Engineering Computation**

11536 EGR-1705-D35 (5/28-7/28)

3 cr.

Mr. Fulmer

Course serves as an introduction to the use of computers in engineering and to problem solving in engineering. The analysis of problems will be accomplished using Mathcad, Excel, and Matlab. Programming structures such as decisions, loops and functions will be covered wherever appropriate. Course will provide students with a range of skills which will be useful not only in the engineering curriculum but also during their engineering career. For additional information, please contact Mr. Fulmer at howard.fulmer@villanova.edu.

### **Journalism**

11387 ENG-2020-015 (5/28-6/25)

3 cr.

Dr. Hollis

News gathering and news writing; principles, rules and techniques of news, editorials, features. A practicum with lectures. Use of computers and word processing. Writing Intensive. For more information, please check the course web page: <http://www.9.homepage.villanova.edu/karyn.hollis/profacademic/Courses2020/2020mainpage.htm> or contact Dr. Hollis at karyn.hollis@villanova.edu.

### **Topic: Technical Editing**

11388 ENG-2045-035 (5/28-7/28)

3 cr.

Ms. Graziano

This course teaches students how to edit technical documents such as reports, proposals, and manuals for elements of good writing including knowledge of the target audience, correct grammar, logical organization, sound structure, and fluent style. Topics presented include proofreading, copyediting, developmental editing, and working with clients. For additional information, please contact Ms. Graziano at karen.graziano@villanova.edu.

### **Topic: Advanced Business Writing**

11389 ENG-2045-036 (5/28-7/28)

3 cr.

Ms. Graziano

Good writing matters in business. Business professionals, communication specialists, and consultants are charged with writing letters, memos, business reports, and proposals on a daily basis. Writing problems impede their persuasiveness and credibility. This course teaches business writing techniques that will enable students to work effectively in any professional environment. This course builds on the skills learned in ENG 1010; however, no previous business writing experience is necessary. For additional information, please contact Ms. Graziano at karen.graziano@villanova.edu.



**Catholic Writers: Selected Modern Readings**

11708 ENG-2790-X15 (5/28-6/25)

3 cr.

Dr. Hollis

What does it mean to be a Catholic writer? This course will answer that question by introducing you to a few of the most engaging Catholic writers and poets of the 20th century and beyond. Perhaps you recognize the names Flannery O'Connor, Graham Greene, Seamus Heaney—Catholics all, yet you many not have known how their faith informs their work. We will undertake that investigation in this distance learning class with readings supplemented by bi-weekly chat sessions, online video and audio selections, WebCt discussions, and two real time discussions in Second Life, an online virtual world. Cross listed with HUM-2900-X15 and THL-5800-X15. For additional information, please contact Dr. Hollis at karyn.hollis@villanova.edu.

**Ethical Traditions and Contemporary Life**

11695 ETH-2050-015 (5/28-6/25)

3 cr.

Staff

11694 ETH-2050-025 (6/27-7/28)

Staff

Major Western ethical traditions as they apply to selected contemporary ethical problems, with special consideration to Jewish and Christian perspectives. This course satisfies the Arts and Sciences Writing Enriched requirement. For additional information, please contact the Ethics Department at 610-519-4692.

**Principles of Finance**

11401 FIN-1113-015 (5/28-6/25)

3 cr.

Dr. McWilliams

11402 FIN-1113-016 (5/28-6/25)

Dr. McWilliams

The theory and techniques of financial management. Time value of money; risk and return; financial analysis and planning; working capital management, capital budgeting; cost of capital; strategic long-term financing decisions. Junior or Senior standing. Laptop required. Prerequisites: (ACC 1101 or HON 1101) and (DIT 2010 Concurrency: Yes or HON 2010 Concurrency: Yes or MAT 1235 Concurrency: Yes or MAT 2310 Concurrency: Yes or MAT 4310 Concurrency: Yes or ECE 3720 Concurrency: Yes) and (ECO 1001 or HON 1080) and (ECO 1002 or HON 1081) and ( DIT 1006 or MIS 1006 or HON 1016). For additional information, please contact Dr. McWilliams at victoria.mcwilliams@villanova.edu.

**Literature: Catholic Writers**

11710 HUM-2900-X15 (5/28-6/25)

3 cr.

Dr. Hollis

What does it mean to be a Catholic writer? This course will answer that question by introducing you to a few of the most engaging Catholic writers and poets of the 20th century and beyond. Perhaps you recognize the names Flannery O'Connor, Graham Greene, Seamus Heaney—Catholics all, yet you many not have known how their faith informs their work. We will undertake that investigation in this distance learning class with readings supplemented by bi-weekly chat sessions, online video and audio selections, WebCt discussions, and two real time discussions in Second Life, an online virtual world. Cross listed with ENG-2790-X15 and THL-5800-X15. For additional information, please contact Dr. Hollis at karyn.hollis@villanova.edu.

**Ethics and Leadership**

11696 LDR-2040-035 (5/28-7/28)

3 cr.

Dr. Martini

The nature of ethical leadership. How the leader's values and beliefs affect decision making. The concepts of organizational and social responsibility. Restricted to Part-Time Studies students in the BIS degree program. For additional information, please contact Dr. Martini at pmartini@academyleadership.com.

**Introduction to MIS**

11136 MIS-1006-015 (5/28-6/25)

3 cr.

Dr. Wagner

11137 MIS-1006-016 (5/28-6/25)

Dr. Wagner

Fundamentals of business computing applications as an introduction to the concepts of Management Information Systems. Laptop required. For additional information, please contact Dr. Wagner at william.wagner@villanova.edu.

### **Principles of Marketing**

11444 MKT-1137-035 (5/28-7/28)

3 cr.

Dr. Sanchez

Description and evaluation of the ways in which goods and services are developed to meet customer and consumer needs and distributed for domestic and international consumption; economic, government, social, and other environmental forces in relation to the marketing function; emphasis on relevant social problems and responsibilities. Students must be able to commit to an online chat session on either Monday or Tuesday evenings from 6:00-8:00 p.m. Preliminary course information will be emailed to registered class members at their Villanova email addresses in early May. Course information for Dr. Sanchez's course can also be found at Dr. Sanchez's Villanova web page. Prerequisite: Sophomore, Junior or Senior standing. For additional information, please contact Dr. Sanchez at peter.sanchez@villanova.edu.

### **Introductory Statistics I**

11515 MAT-1230-035 (5/28-7/28)

3 cr.

Dr. Lupinacci

Gathering, displaying and summarizing data, normal distributions, regression and correlation, and basic probability concepts. Not open to students who have completed MAT 1505. For additional information, please contact Dr. Lupinacci at paul.lupinacci@villanova.edu.

### **Principles of Nutrition**

11595 NTR-2120-015 (5/28-6/25)

3 cr.

Dr. Costello

11596 NTR-2120-016 (5/28-6/25)

Dr. Costello

The course "Principles of Nutrition" provides students an opportunity to explore current research and issues related to nutrition and health. Emphasis is placed on nutrition as an integral component of mind body wellness. The students will study nutrients and their role in health promotion and disease prevention. Each student will have the opportunity to assess their own dietary habits by comparing their nutrition behavior to current recommendations. Consumer issues such as food safety, and the influence of the media on food choices will also be examined. The unique nutrient needs of the various stages of the life cycle such as pregnancy and childhood will be presented. Topics such as healthy weight management will also be studied. "Principles of Nutrition" is taught by a Registered Dietitian and offers students the experience to study the complex and interesting role nutrition plays in our overall health. There are no prerequisites for this course and it should fulfill the nutrition requirements for most Nursing Education programs. All students enrolled in the course must review their Villanova email as all initial course information will be sent to their Villanova email account in late April/early May. For additional information, please contact Dr. Costello at marcia.costello@villanova.edu.

### **Healthy Lifestyles and Human Values**

11563 NUR-2200-015 (5/28-6/25)

3 cr.

Dr. Costello

The Healthy Lifestyles and Human Values course is designed to offer college students the opportunity to consider healthy lifestyles, health-related concerns, and issues of contemporary living with a focus on personal decision-making within a context of values and responsibility. Students will be exposed to comprehensive information on life issues and be able to identify available resources for education and health promotion. Course content, assignments and other related information will be accessed via the course Internet web page, and the required course textbook. Individual online responses and dialogue among students enrolled in the course will be extensive. There are no prerequisites for this course and it should fulfill the course requirements for a free elective requirement. All students enrolled in the course must review their Villanova email as all initial course information will be sent to their Villanova email account in late April/early May. For additional information, please contact Dr. Costello at marcia.costello@villanova.edu.

### **Research in Nursing**

11564 NUR-3110-015 (5/28-6/25)

3 cr.

Dr. Cantrell

Emphasis on the methods of systematic inquiry in nursing practice. Designed to develop critical consumers of published research. For additional information, please contact Dr. Cantrell at mary.ann.Cantrell@villanova.edu.

### **Introduction to Philosophy**

11628 PHI-1050-015 (5/28-6/25)

11629 PHI-1050-016 (5/28-6/25)

11630 PHI-1050-017 (5/28-6/25)

The issues of God, persons and nature, and knowledge. Readings include sources which give special consideration to the classical and Christian perspectives. For additional information, please contact Dr. Brogan at [walter.brogan@villanova.edu](mailto:walter.brogan@villanova.edu).

3 cr.

Dr. Brogan

Dr. Brogan

Dr. Brogan

### **Philosophy and Literature**

11634 PHI-2760-025 (6/27-7/28)

11635 PHI-2760-026 (6/27-7/28)

11636 PHI-2760-027 (6/27-7/28)

Philosophical ideas in selected literary works; examination of how the reader's knowledge contributes to the understanding of literature; we pay special attention to the relation between fiction and truth, the suspension of disbelief, and whether something "fictional" can be false. For additional information, please contact Dr. Lang at [helen.lang@villanova.edu](mailto:helen.lang@villanova.edu).

3 cr.

Dr. Lang

Dr. Lang

Dr. Lang

### **Philosophy and Film**

11639 PHI-4150-015 (5/28-6/25)

11640 PHI-4150-016 (5/28-6/25)

11641 PHI-4150-017 (5/28-6/25)

Understood philosophically, what a film means turns up on three levels. It is revealed in the ways issues about being human are addressed and answered in a film, in how this or that representation of our relation to nature or the city or modernity, the past and the future, to race, gender, and class distinctions, to love, sadness, coming of age, and death challenges or enhances the ways we understand our everyday lives and experiences. How does a film distort, idealize, inform or correct our ordinary perception of reality? It is revealed in the ways films "mean." How do films make meaning from the otherwise random gradations of light and local or incidental sounds that are attached to reels of perforated celluloid and digital data files? It is revealed, finally, in the aesthetic qualities of films. How can we appreciate films as works of art. TEXT: Braudy and Cohen, *Film Theory and Criticism*, 6e (ISBN: 0195158172). REQUIREMENTS: Participation on Blackboard, seven (500 word) response papers weighted equally and averaged to equal half the final grade, and one (1500-2000 word) term paper equal to the other half of the final grade. For more go to <http://www.homepage.villanova.edu/john.carvalho/Film/information> or contact Dr. Carvalho at [john.carvalho@villanova.edu](mailto:john.carvalho@villanova.edu).

3 cr.

Dr. Carvalho

Dr. Carvalho

Dr. Carvalho

### **The Concept of Light**

11661 PHY-1500-025 (6/27-7/28)

Historical and analytical survey of the concept of light from classical to modern view points. Open to C&F and Arts majors (fulfills Arts core science requirement when taken with PHY 1501). This WebCT course allows students to download the syllabus, assignments, and the PowerPoint presentation of the lectures. Readings are assigned for every day of the course. Final grades are based on the assignments, tests, and participation in on line discussions. A voluntary meeting at 1:00 p.m. on the Friday before the start of classes will be held in Mendel 362 for those interested in learning more about the course and/or how to participate in the course. Books required for the course are found in the Villanova University bookstore. Contact the instructor for any questions regarding this course at [javad.siah@villanova.edu](mailto:javad.siah@villanova.edu) or 610-519-4886.

3 cr.

Dr. Siah

### **Gravity**

11659 PHY-1502-015 (5/28-6/25)

Gravitational force and the laws governing the motion of objects; Newton and Einstein's theories; role in the evolution of the universe. Non-calculus based. For C & F and Arts majors (fulfills Arts core science requirement when taken with PHY 1503). This WebCT course allows students to download the syllabus, assignments, and the PowerPoint presentation of the lectures. Readings are assigned for every day of the course. Final grades are based on the assignments, tests, and participation in on line discussions. A voluntary meeting at 1:00 p.m. on the Friday before the start of classes will be held in Mendel 362 for those interested in learning more about the course and/or how to participate in the course. Books required for

3 cr.

Dr. Siah

the course are found in the Villanova University bookstore. Contact the instructor for any questions regarding this course at javad.siah @villanova.edu. or 610-519-4886.

### **Introduction to American Government**

11660 PSC-1100-025 (6/27-7/28)

3 cr.

Dr. Thompson

This course examines the informal and formal elements of the American political system. The informal elements support the environment for democracy and security by its nation building history of federalism, constitutionalism, and civil rights buttressed by pressure groups and political parties. The formal elements are institutionalized in the elections, three branches of the central government, bureaucracy and foreign policy. Comparable to a tutorial independent course, students download the syllabus and assignments, and view the instructor's lectures and class discussions on the American issue assigned for the day. The final grade is based on 5 assignments and 3 projects scheduled entirely as asynchronous writing work, that is, there are no required times for students to be on line for chat rooms. Punctual submission of assignments and projects are essential to receive full grading credit. The required textbook is found in the Villanova University bookstore. A voluntary meeting at 2:30 P.M. on Thursday, April 24, 2008, will be held in SAC 202 for those interested in learning more about the course and/or how to participate in the course. For additional information, please contact Dr. Thompson at 610-519-4727. Note: due to his research overseas, Dr. Thompson will not be available during May and June.

### **Black Politics**

11672 PSC-2750-015 (5/28-6/25)

3 cr.

Mr. Pryor

Analysis of black American politics, including ideology, electoral participation, movement politics, and public policy. For additional information, please contact Mr. Pryor at frank.pryor @villanova.edu.

### **Political Economy of Black America**

11675 PSC-2775-025 (6/27-7/28)

3 cr.

Mr. Pryor

The interplay between race and economics over time; features the principles, terminology and methods of standard economics and Black political economy. For additional information, please contact Mr. Pryor at frank.pryor@villanova.edu.

### **Latin America**

11678 PSC-4750-015 (5/28-6/25)

3 cr.

Dr. Gustafson

Comparison of the political systems of Latin American countries. The role of the military, the church, elites, political parties, constitutions and social and economic factors which have shaped the development of the region. For additional information, please contact Dr. Gustafson at lowell.gustafson@villanova.edu.

### **Development and Aid**

11679 PSC-4875-035 (5/28-7/28)

3 cr.

Dr. Toyoda

This course covers current debates about development and the role of development assistance in the form of grants, loans and technical assistance. A continuing theme throughout the course is about uncertainties regarding the politics and effectiveness of aid, together with moral views and ethical questions about providing international aid. For additional information, please contact Dr. Toyoda at amaria.toyoda@villanov.edu.

### **Ireland**

11680 PSC-4950-025 (6/27-7/28)

3 cr.

Dr. Thompson

This course invites students to learn about the informal and formal elements of Ireland's political system. The informal elements examine the Irish culture, history of the Irish State, its political parties and elections. The formal elements are institutionalized by the presidency, parliament, Prime Minister and the courts. The course ends by examining Ireland's foreign policy with Northern Ireland. Comparable to a tutorial independent course, students download the syllabus and assignments, and view the instructor's lectures on the Irish issue assigned for the day. The final grade is based on 5 assignments and a research project scheduled entirely as asynchronous writing work, that is, there are no required times for students to be on line for chat rooms. Punctual submission of assignments and the paper are essential to receive full grading credit. The required textbook is found in the Villanova University bookstore.

A voluntary meeting at 2:30 P.M. on Thursday, April 24, 2008, will be held in SAC 202 for those interested in learning more about the course and/or how to participate in the course. For additional information, please contact Dr. Thompson at 610-519-4727. Note: due to his research overseas, Dr. Thompson will not be available during May and June.

### **Industrial and Organizational Psychology**

3 cr.

11613 PSY-2700-015 (5/28-6/25) Restricted to Part-Time Studies students.

Dr. Stokes

11614 PSY-2700-X15 (5/28-6/25) Restricted to non Part-Time Studies students.

Dr. Stokes

This course is designed to demonstrate how theories of psychology are applied to the workplace. To have effective workplaces and productive and motivated employees, organizations are looking closely at the impact of the organizations work environment, leadership, formal/informal policies and other factors. Topics include organizational structure, people and personality, motivation, job stress, group dynamics, communication and leadership and gender. Students will work in teams via the course chat rooms. Students need to have access to a web browser such as Firefox or Internet Explorer and have access through ISP to the campus network. For additional information, please contact Dr. Stokes at [robert.stokes@villanova.edu](mailto:robert.stokes@villanova.edu). Prerequisite: PSY 1000 or HON 1811.

### **Social Problems**

3 cr.

11491 SOC-2000-025 (6/27-7/28)

Dr. Pattnayak

Significant problems of American society; the sociocultural basis of social problems, the conditions facilitating their incidence, and approaches to effective policy intervention. For additional information, please contact Dr. Pattnayak at [satya.pattnayak@villanova.edu](mailto:satya.pattnayak@villanova.edu).

### **Perspectives on United States Poverty**

3 cr.

11492 SOC-2950-015 (5/28-6/25)

Dr. DeFina

Poverty in the United States, emphasizing the experience of the past thirty years (measurement, causes, and policies to combat poverty). Emphasis on the special problems of urban poverty and poverty among children. Africana Studies Minor/Concentration, Diversity I, Writing Enriched. For additional information, please contact Dr. DeFina at [robert.defina@villanova.edu](mailto:robert.defina@villanova.edu).

### **Religion and Literature**

3 cr.

11709 THL-5800-X15 (5/28-6/25)

Dr. Hollis

What does it mean to be a Catholic writer? This course will answer that question by introducing you to a few of the most engaging Catholic writers and poets of the 20th century and beyond. Perhaps you recognize the names Flannery O'Connor, Graham Greene, Seamus Heaney—Catholics all, yet you many not have known how their faith informs their work. We will undertake that investigation in this distance learning class with readings supplemented by bi-weekly chat sessions, online video and audio selections, WebCt discussions, and two real time discussions in Second Life, an online virtual world. Cross listed with ENG-2790-X15 and HUM-2900-X15. For additional information, please contact Dr. Hollis at [karyn.hollis@villanova.edu](mailto:karyn.hollis@villanova.edu).

## **GRADUATE COURSES**

### **Lake, Stream and Wetland Ecology**

3 cr.

11228 CEE-7010-D35 (6/2-7/28)

Dr. Browne/Dr. Traver

Basic ecological principles. Food chains, trophic structure, biogeochemical cycles, and ecosystem dynamics. Water quality problems including nutrient enrichment, toxicity, and nonpoint source pollution. Watershed evaluation and management concepts, and TMDL.

### **Introduction to Hydraulic Engineering and Hydrology**

3 cr.

11230 CEE-7111-D35 (5/28-7/23)

Staff

Extension of fluid mechanics. Basic principles, mathematical concepts and solution methods, experimental data, and engineering judgement. Pressurized-flow systems, free surface flow, stream channel behavior and control, hydrologic data interpretation, hydrograph analysis and synthesis. Prerequisite: Undergraduate fluid mechanics (or its equivalent); proficiency in computers. For additional information, please contact the Civil and Environment Engineering Department at 610-519-4960.

**Wood and Masonry Structures** 3 cr.  
11235 CEE-7401-D35 (6/2-7/28) Dr. Gross  
Design and behavior of wood and masonry structures; introduction to design codes; material properties; structural members; connections; structural systems.

**Introduction to Environmental Processes Engineering** 3 cr.  
11232 CEE-7502-D35 (5/27-7/22) Staff  
Fundamental physical, chemical, and biological principles and processes for water and wastewater treatment; chemical kinetics, reactor engineering, sedimentation, disinfection, filtration, and fixed film biological treatment. Prerequisites: Undergraduate fluid mechanics (or its equivalent) and two semesters of undergraduate chemistry. For additional information, please contact Dr. Suri at rominder.suri@villanova.edu.

**River Mechanics and Engineering** 3 cr,  
11238 CEE-8512-D35 (5/29-7/24) Mr. Bellini/Mr. Szalay  
Includes fluvial geomorphology, streambank stabilization, dam removal, in-stream habitat enhancement, sediment transport analysis, scour at bridges and culverts, design of scour countermeasures, design of naturally and structurally stable channel systems and design of energy dissipaters.

**Fundamentals of Solid State Electronics** 3 cr.  
11113 ECE-7500-D35 (5/28-7/28) Dr. Jupina  
Solid state electronics including semiconductor device physics, microelectronic fabrication, and SPICE modeling. Topics include quantum well structures, semiconductor physics, pn junctions, bipolar and field effect transistors, photolithography, oxidation, diffusion, and computer simulation of semiconductor devices.

**Computer Aided Production Planning** 3 cr.  
11543 ME-7402-D15 (5/28-6/25) Dr. Radhakrishnan  
Static and dynamic production planning models, operations scheduling, inventory control, forecasting, queuing theory. Undergraduate students must obtain permission of the department chair. For additional information, please contact Dr. Radhakrishnan at t.radhakrishnan@villanova.edu.

**Advanced Pathophysiology** 3 cr.  
11582 NUR-8901-035 (5/28-7/28) Dr. Capriotti  
Physiological processes and pathological changes that contribute to alterations in health. For additional information, please contact Dr. Capriotti at theresa.capriotti@villanova.edu.

**Development of Nursing Science** 3 cr.  
11583 NUR-8902-035 (5/28-7/28) Dr. Slaninka  
Analysis of the evolution and continuing development of nursing science. For additional information, please contact Dr. Slaninka at susan.slaninka@villanova.edu.

# THE VILLANOVA SUMMER BUSINESS INSTITUTE (SBI)

The Villanova Summer Business Institute (SBI) is a nine-week, rigorous program for undergraduate students and recent graduates with non-business majors. The program is held on the Villanova University campus, just 12 miles west of Philadelphia, and is taught by Villanova School of Business faculty members. Students may opt to reside on campus or to commute to the campus daily.

SBI is unique in its integrative approach to teaching the fundamentals of business, over arching module topics provide you with a framework within which to learn how the business world operates. The creative and demanding SBI curriculum enables you to gain an understanding of business fundamentals—including economic theory, accounting principles, financial analysis, data management, consumer behavior, the legal environment, and strategic management—while also developing cross-disciplinary skills—like verbal and written communication, decision making under adverse conditions, ethical leadership, and innovative thinking—that will help you gain a solid understanding of the big picture of business.

## How to Apply:

**The Villanova Summer Business Institute (SBI)** is designed for Undergraduate students who are non-business majors and have completed at least one year of academic study and Graduates with degrees in liberal arts, the sciences, engineering, nursing, or other non-business majors. You may choose to complete the Summer Business Institute application online via [www.business.villanova.edu/sbi](http://www.business.villanova.edu/sbi) or download the application to submit by mail.

Early application is encouraged. Admissions decisions are made as soon as a complete application package (all documents) is received. The application deadline is April 15, 2008. Applications will begin to be accepted beginning January 2008. Send the application, a copy of your resume, a copy of your collegiate transcript and a one-page essay about why you wish to enroll in the Villanova University Summer Business Institute to:

**Villanova Summer Business Institute**  
The Clay Center - Bartley Hall 1054  
800 Lancaster Avenue  
Villanova, PA 19085

## **FREQUENTLY ASKED QUESTIONS ABOUT THE SBI**

### **Where is SBI held?**

All classes take place in Bartley Hall, the home of the Villanova School of Business at Villanova University. The University is located on a picturesque, 254-acre campus, 12 miles west of Philadelphia. Commuter rail, high speed trolley and bus transportation are available on campus, making trips to Philadelphia very convenient. You can easily take advantage of the many cultural and historic venues, fabulous restaurants and athletic events available in this world-class city.

### **What is the cost of the program?**

The cost of the 2008 SBI is \$8,500, which includes tuition, books, the use of a laptop computer, a subscription to the *Wall Street Journal*, iprint allowance, and transportation to corporate site visits. Additional charges apply if you choose to live on campus. A non-refundable deposit of \$500 is required if accepted into the program. This deposit is applied against the program's tuition when enrolled.

### **Where do SBI students live?**

Students have the opportunity to enhance their SBI experience by living on Villanova's campus. This residential component expands the learning environment beyond the walls of the classroom and facilitates group discussions and team projects. Please contact the Office of Residence Life to learn more about housing options. Villanova has also earned recognition for

the quality and variety of its campus dining options. While living on campus is encouraged, it is not mandatory. Students are free to make their own arrangements for housing and meals.

### **How do I apply?**

The SBI application can be completed online via [www.business.villanova.edu/sbi](http://www.business.villanova.edu/sbi) or downloaded and mailed with your transcript, essay, and resume. Enrollment is limited so applying early is strongly encouraged.

### **What credentials do I receive upon completion of SBI?**

Villanova students who successfully complete SBI earn a business minor. Students from other universities earn a SBI certificate. In both cases, your SBI experience will broaden your skill set, strengthen your academic foundation, build your professional confidence, improve your problem solving and decision making skills, and serve as an impressive credential on your resume.

### **Can students from other schools attend?**

Absolutely! The Summer Business Institute is open to qualified students from any accredited school or university located in the United States or abroad. SBI can also help recent non-business graduates gain business insights that can help them be more productive in their first job.

### **Are there any special requirements or minimum GPA's?**

You must be in good academic standing at your institution and have successfully completed your freshman year (generally 30 credits). While there is no minimum GPA requirement for admission, space will be assigned to the strongest candidates first.

### **If I've already taken a few of the required courses for a business minor, can I finish my minor at the Summer Business Institute?**

The Summer Business Institute is not an appropriate way to complete a business minor already in progress due to the integrated design of the curriculum.

### **What's my next step?**

Interested Villanova students should discuss the SBI with their academic advisor to ensure they understand how SBI credits will be handled within their school. Additionally, students from outside Villanova should discuss this opportunity with the appropriate advisors at their institution.

### **More Questions?**

Plan on attending one of the SBI information sessions scheduled for Bartley Hall or contact the Clay Center at [sbi@villanova.edu](mailto:sbi@villanova.edu) or 610.519.6707.



# OFFICE OF INTERNATIONAL STUDIES

Lance Kenney, Director

Office: Middleton Hall, 2nd Floor

Phone: 610-519-6412

Web: [www.villanova.edu/vpaa/intlstudies/](http://www.villanova.edu/vpaa/intlstudies/)

Email: [inquiries.internationalstudies@villanova.edu](mailto:inquiries.internationalstudies@villanova.edu)

## ***WHERE WILL YOU BE NEXT SUMMER?***

Villanova University sponsors International Summer Programs in Europe, Asia, and Latin America. These summer programs, open to both VU and non-VU students, offer opportunities in three areas of study:

- [Business Programs](#)
- [Language & Literature Programs](#)
- [Arts & Culture Programs](#)

These summer programs are either intensive language, literature and civilization programs, business programs, internship programs, or area studies programs.

The Office of International Studies (OIS) plans, coordinates, and implements all Villanova University overseas study programs and study centers. Additionally, the OIS coordinates various on-campus, international educational activities. VU summer programs are directed by Villanova University Faculty Program Coordinators (FPC) from all academic disciplines and departments. Instruction is offered by VU Faculty Program Coordinators as well as faculty members associated with the host institution.

### **General Requirements**

- 2.5 GPA on a 4.0 scale; some programs require a higher GPA.
- Full-time university status without disciplinary or academic probation or financial holds.
- Students must attend program through the stated dates.
- *Additional Academic Requirements and/or Special Instructions* may be listed on the specific program descriptions.

Please visit us on our Web site and download the summer program application packet which includes all the information and necessary forms: [www.villanova.edu/vpaa/intlstudies/](http://www.villanova.edu/vpaa/intlstudies/).

*Summer Applications are due NO LATER than March 7, 2008.* Admission is based on rolling admissions, programs may fill prior to March 7, 2008. All forms and summer program applications can be found on the OIS Web site.

**NOTICE:** Villanova University reserves the right to modify or cancel any program.

# IN DIALOGUE WITH AUGUSTINE

An Intensive Seminar  
on the Thought and Impact  
of Augustine of Hippo

July 21 – July 25, 2008

## **“HOW AUGUSTINE READS THE OLD TESTAMENT”**

Michael Cameron  
University of Portland  
Mon – Fri, 9:00 a.m. to 12:00 noon

## **“AUGUSTINE AND PAUL”**

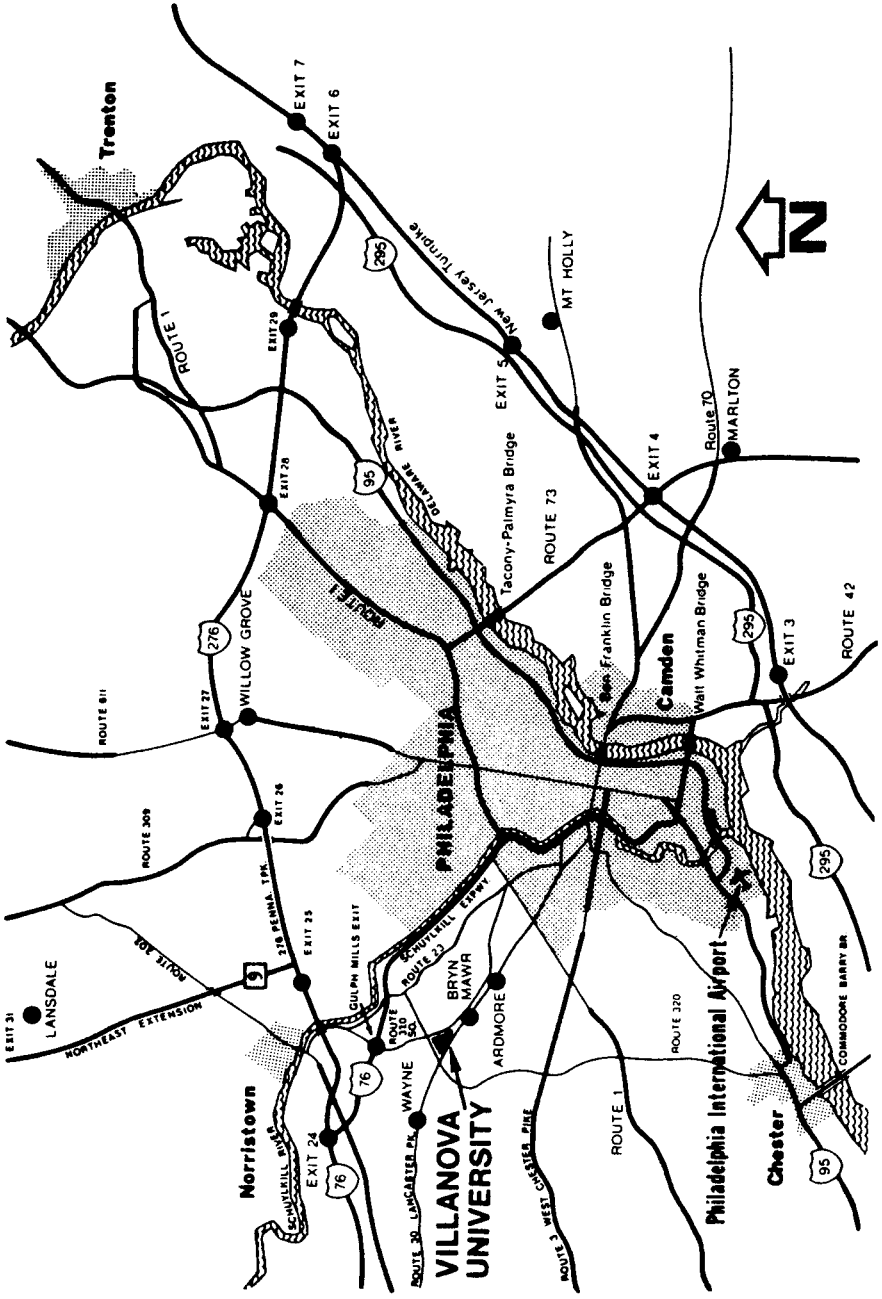
Thomas F. Martin, OSA  
Villanova University  
Mon – Fri, 2:00 p.m. to 5:00 p.m.

This seminar is designed for graduate credit, continuing education units, audit, non-credit enrichment; a preparatory reading list will be supplied. For credit, along with the ten class sessions, requirements will include two evening sessions and a research paper to be completed within three months.

For further information,  
contact the Department of Theology and Religious Studies  
Villanova University, Villanova, PA 19085  
(610) 519-4730 or e-mail [karen.cunningham@villanova.edu](mailto:karen.cunningham@villanova.edu)

## ADMINISTRATION OFFICERS OF ADMINISTRATION

<i>President</i> .....	Rev. Peter M. Donohue, O.S.A., Ph.D.
<i>Vice-President for Academic Affairs</i> .....	John R. Johannes, Ph.D.
<i>Special Assistant to the President for</i>	
<i>Alumni and External Affairs</i> .....	Rev. George F. Riley, O.S.A., Ph.D.
<i>Vice-President and General Counsel</i> .....	Dorothy A. Malloy, J.D.
<i>Vice-President for Administration and Finance</i> .....	Kenneth Valosky, M.S.
<i>Vice-President for Student Life</i> .....	Rev. John P. Stack, O.S.A., M.A.
<i>Vice-President for University Communication</i> .....	Ann E. Diebold, M.B.A.
<i>Dean, Liberal Arts and Sciences</i> .....	Rev. Kail C. Ellis, O.S.A., Ph.D.
<i>Dean, Engineering</i> .....	Gary A. Gabriele, Ph.D.
<i>Dean, Villanova School of Business</i> .....	James R. Danko, M.B.A.
<i>Dean, Nursing</i> .....	M. Louise Fitzpatrick, Ed.D.
<i>Dean, Graduate School of Arts &amp; Sciences</i> .....	Gerald M. Long, Ph.D.
<i>Dean, School of Law</i> .....	Mark A. Sargent, J.D.
<i>Dean, Enrollment Management</i> .....	Stephen R. Merritt, B.A.
<i>Dean of Students</i> .....	Paul F. Pugh, M.A.
<i>Director of Campus Ministry</i> .....	Beth Hassel, P.B.V.M., Ph.D.
<i>Director of Financial Assistance</i> .....	Bonnie L. Behm, M.S.
<i>Director of Library</i> .....	Joseph P. Lucia, M.L.S.
<i>Assistant Vice-President for Multicultural Affairs</i> .....	Teresa A. Nance, Ph.D.
<i>Registrar</i> .....	Catherine H. Connor, M.S.
<i>Director, Summer Sessions</i> .....	James R. Johnson, M.S.



# 2008 SUMMER SCHOOL HOUSING APPLICATION

VILLANOVA UNIVERSITY  
OFFICE FOR RESIDENCE LIFE – 205 Kennedy Hall  
Villanova, PA 19085  
(610) 519-4150

\_\_\_\_\_  
LAST NAME FIRST MIDDLE

\_\_\_\_\_  
HOME ADDRESS

\_\_\_\_\_  
CITY STATE ZIP EMAIL ADDRESS

\_\_\_\_\_  
PHONE NO. (Area Code) SS# or STUDENT PERSONAL ID# ACADEMIC MAJOR

**SMOKING PREFERENCE** (All halls are smoke-free. Information used for roommate assignment purposes only):

- I acknowledge that I am a smoker, or that I do not object to residing with someone who smokes.
- I acknowledge that I am a non-smoker and prefer to reside with someone who is also a non-smoker.

**GENDER:** FEMALE ( ) MALE ( ) **ROOMMATE(S) PREFERENCE:** \_\_\_\_\_

**Please indicate the reason for requiring summer school housing below:**

- Summer School
- SBI Program – Undergraduate
- SBI Program – Graduate
- Summer Research Program/Work on Campus  
Please Indicate Department \_\_\_\_\_
- Summer Internship

=====

## ROOM AND BOARD RATES FOR TRADITIONAL SUMMER SCHOOL HOUSING:

(Check all that apply.)

\_\_\_ Session I  
May 28–June 25

\_\_\_ Session II  
June 27–July 28

\_\_\_ Session III  
May 28–July 28

**Rates:** Undergraduate Residence in St. Monica or Katharine Halls – \$1,175 (double occupancy) for Session I or II; \$2,350 (double occupancy) for Session III (all summer).

All students residing in the residence halls during the summer sessions must have a University Dining Services Meal Plan. The cost for the meal plan for the summer sessions is included in the room and board rates outlined above.

## HOUSING INFORMATION:

*Check-In/Check-Out:* Students registered to reside on campus during the summer sessions should check-in at St. Monica Hall during the hours listed below. Summer school students will be housed in St. Monica or Katharine Halls. Students not registered to reside on campus prior to Tuesday, May 27th, 2008 for Session I & III and Thursday, June 26th, 2008 for Session II should go directly to the Office for Residence Life to register for housing. Students not vacating at the times stated will be **charged for improper check-out**.

- **Session I:** Check-in time is Tuesday, May 27, 12 noon - 8 PM. Check-out is Wednesday, June 25 by 4 PM.
- **Session II:** Check-in time is Thursday, June 26, 12 noon - 5 PM. Check-out is Tuesday, July 29, by 4 PM.
- **Session III:** Check-in time is Tuesday, May 27, 12 noon - 8 PM. Check-out is Tuesday, July 29 by 4 PM.

## DEADLINES:

To insure your room reservation, return this application to the Office for Residence Life by Friday, May 4th for Sessions I & III, and by Monday, June 18th for Session II to the Office for Residence Life; Villanova University; 800 E. Lancaster Ave.; Villanova, PA 19085-1670 or via email to [marie.schauder@villanova.edu](mailto:marie.schauder@villanova.edu). **SEND NO MONEY WITH THIS APPLICATION.** Room and Board fees are payable to the Bursar's Office before or at the time of registration.



# NEW VISITORS ONLY

## VILLANOVA UNIVERSITY

-   -

VU ID or Social Security Number

## VISITORS GENERAL INFORMATION SHEET

*Print or Indicate Appropriate  
Information and Return  
With Registration Form*

Last Name \_\_\_\_\_ First \_\_\_\_\_ Middle \_\_\_\_\_

Apt. or c/o \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

email address \_\_\_\_\_

( ) FEMALE      BIRTHDATE  
( ) MALE

MONTH / DAY / YEAR

MARITAL STATUS  
( ) SINGLE—S      ( ) WIDOWED—W  
( ) MARRIED—M      ( ) SEPARATED—X  
( ) DIVORCED—D

COUNTRY OF CITIZENSHIP: \_\_\_\_\_  
(if other than U.S.A.)

**TO COMPLY WITH FEDERAL LAW, VILLANOVA UNIVERSITY IS REQUIRED TO PROVIDE THE FOLLOWING RACIAL/ETHNIC INFORMATION. THESE DATA WILL NOT BE USED FOR ANY OTHER PURPOSE.**

### ETHNIC GROUP (US CITIZENS ONLY)

- ( ) A African-American
- ( ) H Hispanic
- ( ) I Native American
- ( ) O Asian, Pacific Islander
- ( ) W White, Non-Hispanic
- ( ) X Unknown