

TRITON INSTITUTE



CATALOG 2009

762 San Aleso Ave., Sunnyvale, CA 94085
Tel: (408) 400-9099 (Admission) Fax: 1-888-225-1868

This publication is an announcement of the current programs and course offerings provided by Triton Institute. It is for information only and is subject to change without notice. Courses, faculty assignments, prerequisites, graduation or completion requirements, standards, tuition and fees, and programs may change from time to time. The same courses are not necessarily offered every term.

Triton Institute reserves the rights to change requirements regarding admission, the courses and their contents, the organization of curricula, retention, awarding of degrees, and other necessary rules and regulations. Such regulations shall be effective whenever determined by the appropriate faculty and administrative bodies; they may govern both old and new students.

Every effort, however, has been made to assure that all regulations and curriculum information contained in this *Catalog* are correctly updated as of September 2nd, 2008

Content

President message	3
Philosophy	4
Mission	4
Location	5
Calendar	6
Admission	7
Financial Information	8
Enrollment	9
University Regulation	
12	
Student's Life	
14	
Programs	
15	
Facilities	
19	
Faculty	
20	

A Message from the President

Welcome to the Triton Institute! As we begin the twenty-first century, education is undergoing great changes, merging with the Information Superhighway. Innovations in technology and communications have enabled the educational sector to expand its realm in providing education to a wider range of students in extensive geographic areas.

The Triton Institute is dedicated to utilizing the latest technologies in its efforts to bring the best possible education to students all over the world. We seek to challenge our students, and, in doing so, provide them with the services and opportunities necessary to enable them to successfully complete their respective degree programs.

Located in the very heart of Silicon Valley, Triton Institute is able to attract some of the best talents worldwide to pass on their knowledge and experience to the next generation. Also, Sunnyvale is close to the famous California beaches and noted for the great weather, ethnic diversity and friendly atmosphere.

I would like to invite you to invest your academic future and professional success by exploring the opportunities available at the TRITON and wish you have a great studying experience at Triton Institute.

Triton Institute

President, Dr. Ming Mao

INSTITUTIONAL PHILOSOPHY

Welcome to Triton Institute! Triton Institute is a pioneer in offering quality MBA and Computer Science programs with flexible course schedules designed to meet the needs of working adults. Also, we are committed to providing a challenging and exciting intellectual environment in which adult learners can reach their full potential and achieve their educational goals.

At TRITON, we pride ourselves on the quality of our education. We make sure that our educational training would help enhance students' basic knowledge, skills, critical thinking, and problem-solving ability in order to bring them closer to accomplishing their professional goals.

With our passion to provide excellent education to people who love to learn, we sincerely invite you to join us in our program. A wise decision today, translates to a bright future tomorrow.

MISSION

Triton Institute is a learning community that seeks to serve society by educating the leaders of tomorrow and extending the frontiers of knowledge.

The mission of Triton Institute is to provide a synthesis of innovative and traditional education leading to outstanding professional opportunities for adult learners. Triton Institute aims to bring qualified faculty who have had active careers in high-tech industries and business into interacting with highly motivated students in a stimulating learning environment. With the fast-changing global business and technological industries, Triton Institute adapts its curricula to those needs. At the current stage, Triton Institute focuses on graduate degree programs at the master level in Business Administration (M.B.A), and Computer Science (M.SCS).

OBJECTIVE

Triton Institute provides a unique educational culture and learning environment for students because Triton Institute has recruited a strong pool of talented individuals from Silicon Valley to teach, conduct research, and provide students services. Our educational goal is to give students a solid background in a body of highly specialized knowledge in their chosen field. In addition to familiarizing students with theoretical concepts, our curricula emphasize the process of discovery, analysis, and application of these concepts so that students can easily apply what they learned in the classroom to the real world.

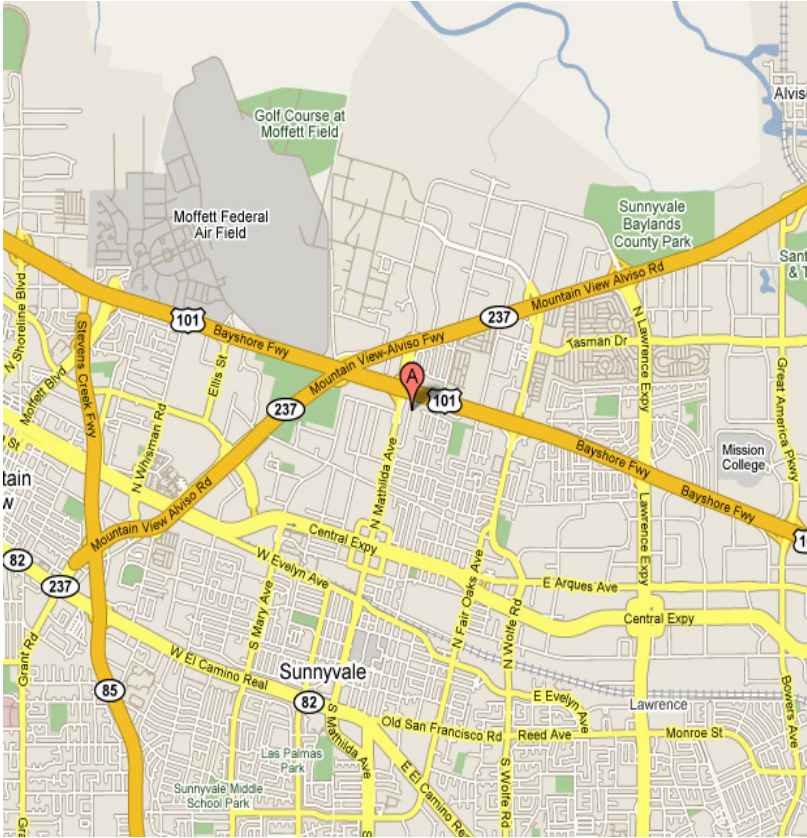
BPPVE Approved School Code: 1942501

UNIVERSITY LOCATION

Triton Institute is located in the heart of Silicon Valley, just 50 miles south of San Francisco and is in the center of the world’s greatest concentration of hi-tech, professional and scientific activity- Silicon Valley. There are many firms around a five mile radius of TRITON—such as HP, Intel, Microsoft, AMD, ATMEL, Sun Microsystems, NASA and IBM— global leaders in computer science technology. San Francisco, Marin County, Berkeley, Oakland, and the beaches are all within one-hour’s travel by bus, train, or car. The Monterey Peninsula, Carmel and the famous Napa Valley wine country are all less than two hours away. San Jose International Airport is about five miles from campus.

University Address:
Triton Institute

762 San Aleso Ave.
Sunnyvale, CA 94085
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Academic Calendar

2008-2009

Traditional Trimester Scheduling

Traditional Trimester Scheduling consists of three 15-week terms scheduled throughout the academic year.

Fall Term 2008

(September 22 - December 20, 2008)

September 1 - September 15 Registration

September 22 Classes begin

October 4 Last day for Registration

October 18 Last day for withdrawing from classes

November 3 - November 15 Advanced Registration for Spring Term 2009

December 6 Last day to file for graduation for this term

December 15 - December 20 Finals

December 22 - January 10 Break

Spring Term 2009

(January 12 - April 11, 2009)

December 29 - January 10 Registration

January 12 Classes begin

January 24 Last day for Late Registration

January 31 Last day for withdrawing from classes

March 9 - March 21 Advanced Registrations for Summer Term 2009

March 28 Last day to file for graduation this term

April 6 - April 11 Finals

April 13 - May 2 Spring Break

Summer Term 2009

(May 4 - August 1, 2009)

April 20 - May 2 Registration

May 4 Classes begin

May 16 Last day for Registration

May 30 Last day for withdrawing from classes

July 6 - 18 Advanced Registration for Fall Term 2009

July 25 Last day to file for graduation for this term

July 27 - August 1 Finals

August 3 - September 5 summer break

Fall Term 2009

(September 7 - December 12, 2009)

August 17 - September 29 Registration

September 7 Classes begin

September 19 Last day for Registration

October 3 Last day for withdrawing from classes

October 19 - October 31 Advanced Registration for Spring Term 2010

December 6 Last day to file for graduation for this term

December 7 - December 12 Finals

December 14 - January 9 winter break

1. ADMISSIONS

To apply for our school either fill out the online application form or pick up an application form from the administration office.

Admission Requirements

1. The applicant must be at least 18 years of age
2. The applicant must possess a tenth grade education.
3. An applicant must take placement test before taking courses.

Applications

All TRITON Applications must include:

1. Completed TRITON Application Form (online or hard copy, can only be submitted once every academic year).
2. Non-refundable Application Fee (\$50).
3. Copy of any two kinds of photo ID.
4. Submit official transcripts from all previous colleges attended.
5. Submit either a TOEFL score or any kinds of English as Second Language test score result taken within the last two years to verifying your English Proficiency.

Admission Procedures

1. The applicant will complete the Admission Application.
2. The applicant will successfully complete the placement test.
3. The applicant will provide copies of any academic transcripts.
4. Complete the enrollment paperwork:
 - a. Enrollment Agreement
 - b. Notice of Student's Rights
 - c. Read School Policy

English Proficiency Requirement

Applicants who did not earn a high school or an undergraduate degree in an English speaking country will be assessed for their English proficiencies by taking a standardized test, such as TOEFL, or Triton's on-campus English Placement Examination. The TOEFL test has different formats—paper based, computer based, and internet based. The passing scores for the three formats are 550, 213, and 79 respectively. Students who did not pass the English Proficiency Test are required to take the English As A Second Language (ESL) course to improve their English.

American Language Classes (ESL Classes)

Triton offers ESL classes at the following levels, ranging from the beginner to high beginner, intermediate, and advanced levels. At the beginner level, the course focuses on pronunciation, grammar, and listening comprehension. Moving from the beginner to the high beginner, students will learn basic reading, writing, and conversation. At the intermediate level, students will be trained with advanced reading, writing, and conversation skills. Courses at the advanced level are designed to familiarize students with academic writing, professional presentation skills, as well as American culture, thereby providing students with both the language and the insight necessary to realize their full potential as participants in the American experience. Students taking the highest levels of ESL classes may be allowed to concurrently take a limited number of degree classes at Triton Institute after consultation with an advisor. Students passing the

English placement exam or the highest ESL classes are considered meeting the entrance English requirement for degree programs.

Trimester Admissions:

Applicants may apply for admissions into any of the three Trimester Terms each year.

Transfer of Credit in the Master's Degree Programs

A maximum of 6 units of graduate-level courses may be transferred from an accredited graduate school or an equivalent foreign institution for the Master's degree programs. Students must at least earn a grade of B in order for the course to be transferred.

Enrollment Agreement

Once accepted by Triton Institute, both the student and the admissions staff will sign an enrollment agreement which indicates the students' program, length of study, estimated cost, refund policy, and other information. The student and the school each keeps a copy of the form.

2. FINANCIAL INFORMATION

Tuition and Fee per Trimester:

Application fee		\$ 50.00
(one time fee, nonrefundable, sent with each application form)		
Tuition for ESL program (per credit unit)		\$100.00
Registration fee		\$ 50.00
Late payment fee		\$ 50.00
Class Drop Fee		\$ 20.00
Class Add Fee		\$ 20.00
Returned check fee		\$ 20.00
Transfer	process	fee
\$ 100.00		

¹*Nonrefundable, regardless of the number of credit hours registered*

Financial Obligations and Refunds_

Students may formally withdraw from a class by handing in a completed *Course Drop Form* obtained from the office. If a student withdraws from a course, he/she may be eligible to receive a refund, the amount of which will be in accordance with the following chart. The student must return all the checked out items such as library books and equipment prior to refund. The detailed refund schedule for a typical 3 credit unit class is as follows:

<u>Date of Withdrawal</u>	<u>% of tuition refundable</u>
Before the first day of a semester	100%
Before the 2nd week of class	90%
Before the 3rd week of class	75%
Before the 4 th week of class	60%
After 4 th week of class	no refund

3. Academic Information

Study Plan

Upon admission to a degree program, the student receives a copy of his/her admission evaluation form which also includes the graduation requirement for the major s/he chose to study. The student is advised to check his/her study plan regularly and consult with an academic advisor should any problem arise. In addition, if there is any error on the study plan, the student needs to report it to the administrative staff immediately.

Academic Advising and Counseling

Triton Institute has designated faculty and staff members serve as academic advisors and counselors to the students. Each student is encouraged to meet with an academic advisor before and during the course registration period each semester, in which the advisor and the student will examine the student's study plan and academic records, choose appropriate courses, and verify course prerequisites. In addition to helping students with course schedules and requirements, academic advisors assist students in exploring their academic options, personal goals, and career path.

Registration

Registration procedures and class offerings can be found in the Class Schedule or on the school's Web site each semester. Students are responsible for the complete and accurate processing of their registration according to the guidelines.

New students may register during the designated period at the beginning of their first term or during the late registration period. Currently enrolled students should register during the pre-registration period in the previous term or the registration period of the current term. Continuing students who wait to register at late registration will be assessed a late registration fee.

Full-time Students

Graduate students taking 9 or more units per semester are considered full-time students. All international students must be enrolled as full-time students. International students must obey the Triton Institute's class attendance policy and maintain normal progress towards completion of the degree objective.

Part-time Students

Graduate students taking less than 9 units of courses per semester are considered as part-time students. A part-time graduate student is encouraged to take at least two courses per semester in order to complete his/her study within normal years.

Non-degree Students

A student can also take courses at Triton Institute as a non-degree student. However, they must still submit previous academic records to verify whether they meet the prerequisite requirements of each intended course.

Auditing Courses

Students who audit a course at Triton Institute receive no credit for the course. The permission for auditing a course will depend on the enrollment of the course the student intends to audit. Priority will be given to students enrolled in the class for credit toward graduation. If enrollments in a class exceed the class

limits, auditors will be removed from the registration list and their tuition for the auditing class will be refunded. A student may change his/her status from audit to credit or vice versa by following a regular ADD/DROP process.

Adding and Dropping Courses

Unless otherwise determined by the Academic committee, students are not allowed to add any courses after the sixth week of instruction. Students that wish to drop a course must do so before the fourth week of instruction to not have it affect their grades. Dropping a course after the fourth week of instruction will result in a grade of WP or WF, depending on whether the student passed or failed the course before the time of dropping. Refund of tuition will be issued for a dropped course as stated in the Financial Obligations and Refunds section.

The deadline for dropping an On-Demand course is before the 12th instructional hour of class (or its equivalent in lab hours, practicum hours, or a combination). Refund of tuition will be issued for a dropped On-Demand course as stated in the Financial Obligations and Refunds section.

Holders of fellowships, assistantships, tuition and fee waivers, and student visas must maintain the required number of credit hours or risk losing their tuition and fee waiver for the term. Students who lose their waivers must pay the full cost of tuition by themselves.

Grading System

The following grades are used:

A = 4.0 grade points per credit hour

A- = 3.7 grade points per credit hour

B+ = 3.3 grade points per credit hour

B = 3.0 grade points per credit hour

B- = 2.7 grade points per credit hour

C+ = 2.3 grade points per credit hour

C = 2.0 grade points per credit hour

C- = 1.7 grade points per credit hour

D+ = 1.3 grade points per credit hour

D = 1.0 grade points per credit hour

D- = 0.7 grade points per credit hour

F = 0 (failure; not accepted as degree credit hour)

I = Incomplete. Used only for reasons beyond student's control. An I that is not removed will remain on the student's record as an I, with no credit hours earned, and is not computed in the GPA.

AUD – auditing. No grade points are earned and the grade is not computed in the GPA.

NR – Used by the Office of Admissions and Records to indicate no grade was reported.

WF – Failed the course at the time of withdrawn. No grade points are

earned and the grade is not computed in the GPA.

A grade of at least C- is required passing the courses. However, all registered credit hours are counted as attempted credit hours and all grades except I, AUD and NR are used in computing the GPA. A student must earn a cumulative 2.0 or above GPA to be eligible for certification.

All courses require letter grades except those specifically designated. For deficiency courses, a letter grade should be given although not counted in the student's overall GPA. A grade of C- or better constitutes a passing grade for a deficiency course. All deficiency courses can be completed at other accredited institutions.

Policy for Incomplete Grade

In order to receive a grade of "I", the student must file a petition with the Registrar prior to the final examination week after obtaining written approval from the instructor of the course he/she wishes to receive a grade of "I" in. The grade "I" is used only for circumstances or situations beyond the student's control. An "I" that is not removed by the deadline will remain on the student's record as an "I", with no credit earned, and will not be computed in the student's GPA.

Repetition of Courses

Students can repeat a course for credit if:

- The course is designated with the phrase "May be repeated for credit."
- The course is one in which a grade of I, D, F, or WF was received. In such cases, the course can be repeated and counted only once toward the degree requirements if the student passes the class.
- Or with the permission of the Academic committee on a case-by-case basis.

Continuation and Probation Rules

Students are considered to be in good standing if they:

- Have achieved Full Status
- Are not on probation; and
- Are making satisfactory progress towards degree requirements, including a project or thesis if required.

Satisfactory Academic Progress

Triton will assess the academic progress of all its students at the end of each term.

A graduate student will be placed on academic probation if after attempting at least 18 credit hours his/her GPA is less than 2.0 or the student has earned less than 9 credit hours. The graduate student will also be placed on academic probation if, after attempting at least 27 credit hours, the student's GPA is less than 2.0 or the student has earned less than 18 credit hours.

If a student takes the failed course more than once, the higher grade will be used in calculating the cumulative GPA (CGPA). However, all credit hours, whether the subject is original or the repeated course, are included as credits attempted.

Students under academic probation are still eligible for financial aid. However, if a student receiving federal financial aid whose cumulative GPA (CGPA) is less than 2.7 for graduate student will no longer be eligible for federal financial aid and will be dismissed, unless the student wishes to continue without being eligible for federal financial aid. However, a student not meeting the CGPA standards may remain as an enrolled student who is still eligible for federal financial aid if there are documented mitigating circumstances (i.e., death in the family, sickness of the student, etc.).

Students who reestablish satisfactory progress will be removed from academic probation. Students who fail to clear their academic probation within five academic terms will be dismissed.

Students on academic probation who change programs or seek additional degrees will remain on academic probation and their previous CSBU academic record will be used to determine the satisfactoriness of their academic progress.

To address special circumstances, students may appeal by filing petitions to the school's Academic committee. Petition forms can be obtained from the Registrar's Office.

Classes – Scheduling Hours

Most classes at TRITON are between 10 a.m. and 10 p.m. weekdays, or on the weekends, meeting one day per week.

Credit Hours for Courses

Academic credits are measured in terms of credit hours. One credit hour is equivalent to one trimester term hour, where one trimester credit hour is equivalent to 15 classroom hours of lecture. Additionally, one semester credit hour equals 30 laboratory hours and one semester credit hour equals 45 practicum hours.

Attendance

Attendance is required for all students taking traditional classroom courses at Triton Institute, including those who are auditing a course. No student is allowed to miss more than 20% of the class hours under any circumstance. Failure to meet this requirement would result in the withdrawal of the student from the class with a grade of "F" assigned for the course.

Challenge Examination

Triton recognizes that exceptional students, for various reasons may have already achieved the learning objective of a course, so a *Challenge Examination Option* is provided. At the discretion of the instructor and the Academic committee, Triton offers a *Challenge Examination Option* for students to see if they have the proper background and prerequisites for the advanced courses. If a student fails this test, he/she cannot retake the test for this course again and must enroll and pass the corresponding course. The results of the Challenge Test will be recorded in the transcript.

Graduation

A student can file for graduation one semester in advance before

s/he accomplishes all degree requirements. The student, however, needs to initiate a review process for the Records Officers to verify the student's eligibility for graduation and must file a petition with the Records Officers one semester in advance prior to his/her last registration in order to make the graduation request. The Records Officers will evaluate the student's record and the student will receive a copy of the evaluation report to confirm the courses left for completion in order to fulfill the graduation requirements. The university charges a graduation fee for each graduation petition.

Students are responsible for compliance with the rules, regulations, and policies specified in the University's catalog. A student will not have his/her degree awarded, diploma or transcript released until all University fees have been paid and library records cleared. Upon completion of their study programs, fulfilling their responsibilities and financial obligations to the University, students are granted degrees. Diploma for graduated students may be picked up 60 days after graduation.

4. University Regulations

Academic Grievance Procedures

An academic grievance procedure refers to an administrative process through which students or employees may seek resolution of complaints or grievances arising from a decision made about them.

A student or an employee who has a complaint or request is expected first to resolve the complaint informally. The effort must include discussions with the specific faculty member, teaching assistant or staff member involved. A demonstrated lack of good faith by any side in attempting to resolve complaints informally may be considered with all other factors in reaching an ultimate decision on the merits of any grievance.

Formal Procedure

If the situation is unable to be resolved through any reasonable informal method, a student or employee may escalate it to a grievance. A formal grievance must be filed within 45 days from the time the student or employee believes, or reasonably should have known, that an occurrence has affected his/her status. This period of 45 days includes all informal efforts to resolve the grievance. The student must fill in and submit the grievance form to the Administration Office and a proper administrator will conduct an investigation of the grievance and may interview the student and other people related with the grievance for further clarification. After the investigation, the administrator will either grant or deny the students suggested resolutions or provide other means of resolution. The decision will be notified no later than 14 days following receipt of the written grievance. If the administrator does not resolve the situation in a way that is satisfactory to the student, the student has 14 days to appeal the decision to president of the university upon written receipt of the appeal. The president then has 14 days to notify the student of his decision, either grant or deny the redress sought or provide other resolutions. The president's decision is final. The student will be further advised that any unresolved grievances may be directed to the Bureau for Private Postsecondary and Vocational Education, 1027 Tenth Street, Fourth Floor, Sacramento, CA 95814-3517; or Accrediting Council for Independent Colleges and Schools, 750 First Street, NE, Suite 980, Washington, DC 20002-4241.

Academic Integrity

TRITON is dedicated to learning and research, and is committed to truth and accuracy. Integrity and intellectual honesty in scholarship and scientific investigation is, therefore, of great importance. These standards require intellectual honesty in conducting research, writing of research results and relations with colleagues. Academic misconduct includes cheating, plagiarism, falsification of data, etc.

Confidentiality of Student Records

TRITON complies fully with the Faculty Educational Rights and Privacy Act of 1974, and may release directory information, including name, phone number, address, and major field of study to any person on request unless a student requests in writing that his/her directory information be kept confidential. TRITON will safely keep student records for an indefinite period of time. Certain records are excluded by law from inspection. Specifically, those created or maintained by a physician, psychologist or psychiatrist, in connection with the treatment or counseling of a student. Students have the right to ask for a copy of their records in the Office of Admissions and Records. Students may direct complaints regarding their academic records to the Registrar provided that

they are inaccurate or misleading. In the event that the school refuses to amend the inaccurate records, the student may file for an academic grievance procedure.

Nondiscrimination Policy

The commitment of TRITON to the most fundamental principles of academic freedom, equality of opportunity, and human dignity requires that decisions involving students and employees be based on individual merit and be free from invidious discrimination in all its forms, whether or not specifically prohibited by law.

The policy of TRITON is to comply fully with applicable federal and state nondiscrimination and equal opportunity laws, orders and regulations. TRITON will not discriminate in programs and activities against any person because of race, color, religion, sex, national origin, ancestry, age, marital status, handicap, unfavorable discharge from the military, or status as disabled veteran or veteran of Vietnam era. This nondiscrimination policy applies to admission, employment, and access to and treatment in University programs and activities.

Complaints of invidious discrimination prohibited by university policy shall be resolved exclusively within existing TRITON procedures.

Sexual Harassment Policy

Sexual harassment is defined by law and includes any unwanted sexual gesture, physical contact, or statement that is offensive, humiliating, or any interference with required tasks or career opportunities at TRITON. Sexual harassment is prohibited under federal and state discrimination laws and the regulations of the Equal Employment Opportunity Commission.

TRITON will not tolerate sexual harassment of students or employees and will take action to provide remedies when such harassment is discovered. The University environment must be free of sexual harassment in work and study. In order to assure that TRITON is free of sexual harassments, appropriate sanctions will be imposed on offenders in a case-by-case manner. TRITON will respond to every complaint of sexual harassment reported.

Encumbrance of Registration and Records

Students who owe any money to TRITON will not be permitted to register, will not be entitled to receive an official transcript of their credits, will not be entitled to receive their diplomas, and will not be entitled to receive certification for practical training for foreign students until their indebtedness has been paid.

5. Student's Life

University Orientation

All new students are **required** to attend the new student orientation workshop offered before the beginning of each semester. In the orientation workshop, orientation packages containing regulations, policies, and rights students need to know are distributed to new students. In addition, new students are informed of the staff's duties in order to receive proper administrative services.

Housing Assistance

Triton Institute provides information on a variety of well-maintained apartment options. The school's Web site provides the housing service information. If students need assistance in finding places to live, they need to submit an application form at least two months before they report to Triton Institute.

Transportation Services

Information on public and personal transportation service is available at Triton Institute. There is also an officer in student affairs who can provide consultant on transportation based on students' needs.

Career Placement Services

Triton Institute's career placement services help the students in the following areas: (1) provide individual consultant on career planning, (2) prepare resumes and sharpen interview skills, (3) conduct career seminars and job fairs, (4) provide internship opportunities to the students, (5) provide library materials and online job search tools. These services allow students to gain access to a variety of sources of job information.

Student Handbook

The Triton Institute student handbook describes policies and regulations related to students' lives at Triton Institute. It also outlines procedures through which students can communicate formally or informally with the University.

The Student Association

The Student Association provides support to students in various aspects. It enables students to maximize the social, vocational, and educational perspectives of their learning experience. Students automatically become members of the Student Association when they register with Triton Institute. Students are encouraged to actively participate in the association's activities.

Alumni Association

The Alumni Association is made up of all graduates of Triton Institute. The Alumni Association helps to build connections between Triton Institute graduates and the University. In addition, association aims at broadening communication and mutual support among current and former students, faculty, staff, and the community. The Alumni Association offers valuable resources which link the academic community with the outside world.

6. Degree Programs & Requirements

Triton's graduate programs are designed to prepare students for the practice of business administration, and computer science at a professional level. In addition, each degree curriculum is intended to incorporate the state-of-art development of Silicon Valley's major industries in electronics, software, enterprise management, and global business development. All faculty members at Triton have had previous or current industry experience and are equipped with up-to-date knowledge and skills in their teaching subjects in order to equip students with strong qualification for entering the job force.

School of Business

Dr. Cynthia Wan, Ph.D., Dean

Dr. Q Jiang Chang, Ph.D., Assistant Dean

Purpose

The School of Business offers graduate degree programs. This is an educational program in the business and organizational disciplines intended to prepare individuals to make sustained contributions to organizations and society in a global, diverse and dynamic environment, focusing on developing an individual's interdisciplinary problem solving skills, interpersonal and communication skills, ability to adapt to changing information technology and business environment, spirit of entrepreneurial innovation, and ethical and professional values. Successful completion requires not only an understanding of the important functional skills in accounting, financial management, marketing, business law, and business and project management, but also an understanding of modern information systems, Internet technology pertinent to e-commerce and e-business applications.

To help the students gain real-world experience, an enterprise resource-planning tool, such as SAP software, is integrated into the business curriculum. A number of faculty members will guide the students to practice using SAP software and its applications in an enterprise environment.

Faculty

Triton's emphasis on a community of scholars and integrated education attracts faculty who are as committed to their students' intellectual and moral development as they are to pursuing their own scholarship. Triton's full-time faculty members in school of business include experienced professors with advanced degrees in Business Administration and love teaching and helping students to solve problems on academic studies.

Objectives

Problem Solving: Each student will be able to systematically diagnose problems and/or opportunities, especially in business settings, and develop alternative courses of actions to resolve the problems or take advantage of the opportunity.

Strategic Thinking: Each student will have an understanding of long-range/strategic management and will be able to develop, implement, assess, and refine a strategic plan in a business setting.

Organizational Change: Each student will be able to systematically diagnose an organization's environment and operations to identify needed changes and to develop plans to successfully implement those changes in ways that achieve the organization's goal(s).

International/Global: Each student will have an understanding of global influences on business decisions/plans and/or develop plans for managing a business in a global environment.

Workgroup Functioning: Each student will be able to contribute to the success of his/her workgroup by occupying a leadership role and/or as a team member.

Master of Business Administration (MBA)

Objectives

The primary objectives of the master's degree program are: (1) to provide a knowledge base of interdisciplinary business theories and techniques to the students, particularly to the working adult population, and (2) to train and to develop students' practical management skills in a chosen concentrated area for career development, and (3) to develop the students' decision-making capability to face the challenge of the dynamic business world staged with diverse, multicultural, and global business settings.

Concentration of Study: The MBA program provides an opportunity for the student to choose from a variety of concentration areas including: information technology and enterprise management systems, accounting, project and technology business management, global business marketing, legal issues and intellectual property management, health service management, and hospitality management.

Graduation Requirements: A minimum of 36 units is required, 12 from each of the following categories, Basic courses, Electives, and Area of Concentration. Students must also makeup for any background deficiencies by taking additional courses even if 400 level courses may be used as elective units. A grade of "B-" or better must be earned in all basic courses and area of concentration, and a grade of "C-" must be earned for all elective courses. GPA 3.0 or better is required, and students must be in good standings with the university. After fulfilling the requirements stated above, the student may file a petition for graduation and if approved, may graduate.

Concentration Area and Career Planning

All graduate students in the MBA program at Triton are advised to plan for their studies and choose a concentration area early. Before or upon completing 12 units in graduate course work, the student must choose a concentration area. Academic counselors are on-hand to assist the student to make his/her study plan and assess the technology trend and job market.

The students are encouraged to utilize the online eCareer Center and work with Student Services counselors to prepare their resumes and participate in job search activities when they are ready for such a pursuit.

Master Project/Thesis: Students interested in doing research and development work may choose to do a 3-unit master's project or 6 unit master's thesis to earn elective units. Students should pay attention to the requirements for completing the project/thesis.

Advisor: The master's thesis course may be registered as a two-part course, with each part as a 3-unit course, taking a total of two semesters to complete. A faculty member serves as the project/thesis advisor to offer guidance to the student.

Repeat: A student unable to complete the project/thesis in the semester he/she is enrolled in the course is required to continue to enroll in the course the following semester until completion of the project/thesis. Upon completion of the project/thesis, the student or the project team is required to submit a project/thesis report, following the university's project report guide, to the project advisor for approval before submitting it to a technical writer for editing. The student or the project team must also arrange an open-forum presentation to share the work experience with other students.

Grade

The student receives an "S" or letter grade for satisfactory performance and earns the credits, or an "NP" grade for unsatisfactory performance without earning credit in each semester the project is being conducted. Letter grades issued by the advisor are acceptable. Extra credits earned for repeatedly taking the project/thesis cannot substitute for other course requirements.

Electives

In addition to the seven waivable required courses and the 9 nonwaivable required courses discussed above, students select 24 units of elective credit to complete their MBA program. Any course offered in conjunction with the MBA program with the exception of those otherwise required or waived is considered an elective.

The student receives an "S" or letter grade for satisfactory performance and earns the credits, or an "NP" grade for unsatisfactory performance without earning credit in each semester the project is being conducted. Letter grades issued by the advisor are acceptable. Extra credits earned for repeatedly taking the project/thesis cannot substitute for other course requirements.

Changes in Degree Requirements

Triton's policies and requirements are subject to change, and changes may not be immediately reflected on campus websites or publications. New degree requirements, however, will not be imposed retroactively on continuing students unless agreed upon by the students. If degree requirements are changed, students may complete their degree programs under the requirements in effect at the time of their initial enrollments (readmission, if they have discontinued degree status). They have the option of electing to be governed by the new requirements if they are so desired and provide that all requirements of one catalog are met.

MBA Background Preparation

Students admitted to the MBA degree program are required to have proper business background preparation for taking the graduate level coursework. The student must clear all deficiencies before being allowed to take the degree required courses. A student with deficiency in any required background subject must clear it by either 1.) taking courses for credits at Triton and earning a grade of at least C- or higher or 2.) taking and passing the appropriate preparatory module of studies. With advance approval by the academic review committee, the student may be allowed to take proficiency exams to clear his/her background requirements. The following are the required background subjects:

A. Management and Business Law (MGT320, MGT 461, MGT 491, MGT511, MGT 516, MGT 520, MGT525, MGT540, MGT550, Law 420)

B. Economics and Marketing (MKT514, MKT551)

- C. Accounting and Finance(ACC320, FIN 410, FIN520)
- D. Quantitative Analysis and Information Technologies

MBA Curriculum

The MBA program requires a minimum of 36 semester units of graduate study. A maximum of four 400 level courses are allowed to count towards graduation credits. Before the student takes any one the courses below he/she must meet the prerequisite requirements.

1.) Basic Courses (12 credits)

The basic courses provide a base for interdisciplinary business theories and techniques and decision-making methodology. A student must take the following courses to complete the required graduate course requirement:

MGT511 Human Resources Management
BUS520 Quantitative Methods for Business
MGT516 Production and Operations Management
FIN520 Financial Management

2.) Area of Concentration (12 credits)

Apart from required graduate courses in section 1, students must additionally select an area of concentration and complete at least 12 credits (4 courses) in the chosen concentration area. This is to ensure the student is competent in the selected area. The courses taken to fulfill the concentration requirement must not overlap the courses taken for the above Foundation Courses requirement. As new courses are also offered between publications of the university catalogs, the students are advised to refer to the "Concentration Area Course Tables" published with each release of the semester class schedule to select courses for meeting the concentration area requirements.

Area A. Project Management

(Prerequisites: Advanced graduate standing)

Required courses:

MGT520 Project and Risk Management
MGT525 Supply Chain Management for E-Business
MGT540 Managing for Quality Improvement
MGT550 International Business Management

Select two other graduate courses in this concentration area.

Area B. Accounting

(Prerequisites: ACC460)

Required Courses:

ACC510 Introduction to Taxation
ACC520 Advanced Accounting

Select two other graduate courses in this concentration area.

3.) Electives (12 units)

Students may elect graduate-level courses 400 or 500-level, and higher courses in any discipline as electives to meet the elective requirements.

Mezzanine Courses for program requirement - Students admitted with a

background deficiency in organizational behavior and management must take the course of MGT471 Organizational Behavior and Management course and those with a deficiency in Entrepreneurship and Venture Business must take "MGT501 Entrepreneurship and Venture Business " course at Triton. Credits earned can be counted as elective credits towards the MBA graduation requirements.

* Other background requirements for the concentration areas: Each concentration area requires certain 400 level background courses. Students may earn credit towards the degree, if observing the limit for the number of 400-level courses for the program, by taking these courses, such as

- a. Area A (Project Management): MGT461
- b. Area B (Accounting): ACC460

MBA TOTAL REQUIREMENT (36 CREDITS)

MBA Course Description

ACC320 Principles of Accounting (4.0 credits)

This course teaches students the basic foundations for accounting principles. The 6 main topics are: an introduction to basic elements of financial accounting, setting up and using a general journal, how to record and analyze financial transactions, various types of accounts and how to use them, and accounting methods for different types of business. SAP R/3 concepts will be introduced. Students may also use certain kinds of accounting software.

Prerequisite: Instructor's Consent

ACC410 Cost Accounting (3.0 credits)

Students taking this course are taught the relationships among cost, volume, and profit, the process and job-order methods; standard costs, activity based costing, variance analysis, quantitative method and models used in management. It also teaches the students how to use their fundamental knowledge in decision making in a business.

Prerequisite: ACC320

ACC460 Intermediate Accounting - I (3.0 credits)

This course is only for students who are interested in becoming accounting professionals. This course builds on the knowledge obtained in Principles of Accounting series. Students are taught how to understanding financial accounting and accounting standards, required disclosures, financial statement preparation, and an in depth study of current assets, how to calculate revenues and fixed assets. Students will be taught how to use popular accounting tools for both homework and exercises.

Prerequisite: ACC320 and FIN410

ACC490 Intermediate Accounting - II (3.0 credits)

This course is a continuation of Intermediate Accounting - I (ACC462). Students are taught about current and long-term liabilities, investments, stockholders' equity, post-retirement benefits, leases and cash flow statements.

Prerequisite: ACC460

ACC510 Introduction to Taxation (3 units)

This course covers taxation concepts applied to individual's income, deductions, credits, property transactions, and tax accounting methods. An understanding of the concepts will enable students to prepare quality individual income tax returns as a professional. The course will also cover taxation rules governing financial planning.

Prerequisite: **ACC320**

ACC520 Advanced Accounting (3 units)

This course is designed for accounting track graduate students who want to have a complete understanding of the concept of consolidation requirements, consolidated financial statements, and accounting techniques relating to particular types of business and non-business entities. The student will also explore various tax aspects of consolidated financial statements and participate in case studies.

Prerequisite: **ACC460**

ACC522 Federal Taxation of Business Enterprises (3 units)

This course is designed to give students an understanding of the concepts of federal taxation of corporations, partnerships, estates and trusts. An understanding of the concepts will enable students to prepare corporation and partnership tax returns in a professional environment. Also covered are rules governing estates and trusts.

Prerequisite: **ACC500**

ACC530 Managerial Accounting (3 units)

This class applies the essentials of financial accounting to the practice of management. Students will understand cost definitions, cost concepts, cost behavior and cost estimation; also, how cost accounting is applied to manufacturing and service organizations, the principles of planning and control for effective cost-related management, capital budgeting, cash flow statements, and how to analyze financial statements.

Prerequisite: instructor's consent.

ACC540 Auditing (3 units)

In this course, students learn auditing techniques with an emphasis on the Electronic Data Processing environment, audit procedures, practice and programs; working paper preparation and report writing. The students will experience using electronic auditing software to work on their homework and projects.

Prerequisite: **ACC212**

ACC550 Accounting Information Systems (3 units)

This course provides a conceptual framework for contemporary accounting information systems and accounting cycles. It covers database concepts, internal control, transaction cycle and business process, expenditure cycle, conversion cycle, general ledger, and enterprise resource-planning systems. Students may be introduced to SAP R/3 for data manipulation and report generation.

Prerequisite: **ACC212**

FIN 410 Fundamentals of Finance (4.0 credits)

Students taking this course will be introduced to the world of finance. Financial management is a technique used by corporation managers to raise and allocate capital in a manner that will maximize revenue and stabilize the firm's future cash flows. This course examines the concepts and techniques available to financial managers as they address various aspects of the financing and investment. Topics include financial background, financial statements, a review

of accounting, and taxes; cash flow and financial analysis, time value of money, the financial system and interest, the characteristics of bonds, the valuation and characteristics of stocks, capital budgeting, risk and return, and also international finance. A case study will be applied to assist students' learning. SAP R/3 may be introduced.

Prerequisite: Instructor's Consent

FIN520 Financial Management (3.0 credits)

This class teaches students to apply the essentials of financial accounting to the practice of management. Students will understand the definition, behavior, concepts, and estimation of cost; and also about how cost accounting is applied in manufacturing and service organizations, the principles of planning and control for cost-related management, cash flow statements, capital budgeting, and how to analyze financial statements.

Prerequisite: FIN320 or Instructor's Consent

FIN530 Investments (3.0 credits)

This course will cover the basis of investment and how to manage it. Students will be taught about theory and empirical evidence, related to market efficiency, portfolio theory, assess pricing models, factor models, and option pricing theory. Students are taught to combine market research results and electronic information sources to create investment strategies.

Prerequisite: FIN 520

LAW420 Introduction to Business Law (4.0 credits)

This course is an introductory-level course for students interested in U.S. business law. The course will prepare students in spotting potential legal issues in the operation of businesses so they can operate legally and know when to consult an attorney before taking action. The course begins with an overview of the U.S. legal system, its fundamental structures and processes. Emphasis is placed on the increasing role of administrative agencies, as well as on basic contract law principles. Students will also be exposed to several substantive areas of law affecting business.

Prerequisite: Instructor's Consent

MBA608 Master's Project (3.0 credits)

This course is designed to develop student's research abilities. The student or project group will conduct the project under the close supervision of a project advisor. The research and development approach must employ up-to-date information and methodologies. Students are required to: 1.) Make decisions on the subject and formulation of the objective, 2.) Plan the research and development procedures and practical approach, 3.) Set a time table and operation instructions, and generate a proposal, 4.) Carry out their plan 5.) Exam and write a report regarding the results at the end. The project topic and proposal must be approved by the project advisor. The format of the report must be in accordance with Triton's project style guide and be approved by the advisor and tech writer.

Prerequisite: Advisor's approval

MBA609A Master's Thesis - I (3.0 credits)

This is the first part of a 2-part master's thesis course designed for students in the Business Administration program who plans to pursue his/her research interests on a deeper level. Each part requires one trimester to complete half of the entire project work. In this first part, the advisor will assist the student in identifying the research topic, shaping research ideas, and defining the research objectives and scope. The student then performs the following: topic studies, defining the

project objectives and procedures, writing a project proposal and submitting it to the administration after obtaining his/her advisor's approval, working on research and implementation of the project, and documenting findings. Students are required to meet with the advisor regularly.

Prerequisite: Advanced graduate standing

MBA609B Master's Thesis - II (3.0 credits)

This is the second part of the master's thesis course. At the beginning of the semester, the student should draw a conclusion on the research and development work for the project and begin to write a thesis report. The student should make and analyze the project work and results. This way, the student will gain in depth knowledge of the selected subject and develop independent thinking and research capabilities. The report must be approved by the advisor and a tech writer. Upon completion of the project, the student is required to conduct an open-forum presentation of the project.

Prerequisite: MBA609A

MBA 610 Case and independent study (3.0 credits)

Independent studies tailors to student special interest in business administration under the direction of an instructor who is knowledgeable in the field. It may consist of reading, homework, tests, projects or presentations determined the instructor.

MGT320 Principles of Management (4.0 credits)

Students who take this course will learn the foundations and basic skills of management. Specifically, students learn organizational structure and environment, and develop skills in setting objectives in planning, leading, organizing, decision-making, controlling and motivating, communication and negotiating, and managing information for decision making. SAP R/3 may be introduced as demo software.

Prerequisite: instructor's Consent

MGT461 Organizational Behavior and Management (3.0 credits)

Students who take this course will explore the complex dimension of organizational behavior including examination of experiential and conceptual approaches to communication, self-awareness, motivation, perception and problem solving. Students explorer interpersonal and intrapersonal aspects to learn about the management of change, theories in leadership and organizational issues. Students will participate in real case projects.

Prerequisite: MGT 320 or Instructor's Consent

MGT491 Entrepreneurship and Venture Business (3.0 credits)

This course teaches students the full range of the entrepreneurial process including the evaluation, development, and creation of a successful business. It will help the potential entrepreneurs and professionals visualize and experience entrepreneurial development. The course explores the entrepreneurial approach to resources such as the development of an organizational structure, financing entrepreneurial ventures, market analysis, and screening venture opportunities. Individuals will experiment and evaluate what it takes to be an entrepreneur including developing the plan for a new business.

Prerequisite: Senior standing and MGT 461 or Instructor's Consent

MGT511 Human Resources Management (3.0 credits)

This course provides students and practicing managers with a comprehensive overview of essential personnel management concepts and techniques. The

focus is on essential topics such as job analysis, candidate screening, interviewing, testing, hiring, evaluating, training, motivating, promoting, compensating and their associated legal constraints. Additional topics covered include global HR, diversity awareness and training, and sexual harassment legal requirements. Practical applications such as how to appraise performance and benefits and handle grievances are explored. Additionally, developing independent work teams that foster creativity and innovation will be discussed
Prerequisite: MGT461 or Instructor's Consent

MGT516 Production and Operations Management (3.0 credits)

This course is designed to teach students basic theories about production and operations management. Emphases will be on planning, organizing, controlling, and balancing quantitative aspects and behavioral applications in production/operations management; operations strategy will be the guide for topical integration. The students will learn about basic management processes, resource conversions, and behavioral applications within production/operations. Specific topics include operations management, operations strategies for competitive advantage, forecasting in operations, facility and layout planning, product and process design choices, scheduling, inventory control and quality control. The PP, MM, and QM modules of SAP R/3 will be used as demo software.

Prerequisite: Senior standing or Instructor's Consent

MGT520 Project and Risk Management (3.0 credits)

This course is designed for students who are interested in pursuing the project management area of study. Students will be introduced to the principles of project and program management, followed by the roles of project management, matrix organization and project management techniques, leading students to the efficiently execute and complete projects. Students will also learn how to identify and analyze project risks, and how to reduce or eliminate risk-related factors. These techniques are useful in project proposal development. Methods for ongoing risk assessment and project performance evaluation are included. SAP R/3 may be utilized for hands-on experience.

Prerequisite: MGT 461 or Instructor's Consent

MGT 521 Organizational Behavior (3.0 Credits)

This course focuses on the challenges of managing complex systems. We will explore the leadership and motivational skills relevant to performing as an effective manager, and discuss the different roles associated with managing the individual, the unit, the organization, and the larger system.

Prerequisite: Advanced graduate standing or Instructor's Consent

MGT525 Supply Chain Management for E-Business (3.0 credits)

Students taking this course will learn about applying evolving methods in integrating the process of product distribution and supply chain management using electronic business skills. This course will teach students specific methods that will allow them to profitably and efficiently fulfill customer demand through the Internet.

Prerequisite: MGT516

MGT540 Managing for Quality Improvement (3.0 credits)

This course introduces the principles of quality management to students in the context of organizational and cultural change dedicated to the continuous improvement of products and services. The course will focus on quality control

and quality assurance in project execution and ongoing operation environment. Students will learn about quality planning and quality management through hands on practice, including quality plan development and execution, quality management processes and implementation. Many quality management techniques and methodologies will be introduced during the course, and students will be lectured about ISO 9000 and other quality standards.

Prerequisite: MGT461 or Instructor's Consent

MGT550 International Business Management (3.0 credits)

This class teaches students to review the classic five functions of management: planning, organizing, staffing, leading, and controlling. Students will compare managerial practices of many countries. The class will also cover the importance of quality and continuous improvement for gaining a competitive edge. Students will learn practical aspects of management from actual case studies, the strategic considerations for management in the international environment, and the roles of the latest information technologies, including computer networks, decision support systems, telecommuting, and CAD, CAM, CAE.

Prerequisite: Advanced graduate standing or Instructor's Consent

MGT552 Technology Product Management and Marketing (3 units)

This course is designed to give students a practical experience in product development, and focuses on the management of engineering and technology activities. Topics include technology product design, planning, production, marketing, sales, and maintenance; technological product life cycle from research and development through new product introduction, marketing requirement documentation (MRD), product positioning, channel inventory management, outbound communications, and the organizational role of the product marketing manager. Case study and project presentations are required.

Prerequisite: Advanced graduate standing or instructor's consent.

MGT611 Strategic Management (3 units)

This is an advanced-level case study course that integrates the technical skills and concepts of accounting, finance, marketing management, statistics, and computer applications among others. The course first covers the concepts and techniques of strategic management, followed by case studies. Topics cover an overview of the strategic management process, the three strategy-making tasks, industry and competitive analyses, evaluating company resources and competitive capabilities, strategy and competitive advantages, matching strategy to a company's situation, evaluating the strategies of diversified companies, implementing strategy, and case studies.

Prerequisites: Advanced graduate standing or instructor's consent.

MGT613 Manpower Planning (3 units)

This course begins with the discussion of the need for manpower planning and gives samples of plans developed for various types of organizations such as manufacturing, high-tech, small business, etc. This course would give students an opportunity to learn about and develop a manpower plan which is part of the Business Plan and also an ongoing dynamic document developed as a part of the Strategic Planning component of the organization. It also has to do with scheduling, rosters and succession planning which is a process of identifying a long-term plan for the orderly replacement of key employees. The course also explores cases of developing a manpower plan including developing a Gap Analysis to determine manpower needs and budgeting for the manpower needs. Developing new HR manpower configurations such as self-managed teams,

telecommuting, outsourcing, temps-to-hire and other methods to make companies more flexible and offer economical solutions to the high cost of knowledge workers. The course includes case studies and actual writing of several manpower plans for various sizes of organizations.

Prerequisite: **MGT511**

MKT320 Principles of Marketing (3 units)

This course introduces the major principles of marketing, marketing's role within the company and in the global economy. Studies will focus on how to find marketing opportunities with market segmentation, how to get information for marketing decisions, the elements of product planning and new product development, wholesalers and retailers and their strategies, pricing, and promotion.

MKT460 Marketing Management (3 units)

This course studies marketing management by analyzing real-world cases. Students will learn to implement and execute the marketing process through situation assessment, strategy formulation, marketing planning, marketing implementation and evaluation. Prerequisite: **MKT320**

MKT 514 Marketing (3.0 Credits)

This course introduces students to the marketing strategies and tactics that provide competitive opportunities for healthcare organizations. The course focuses on the marketing elements of price, place, product and promotion, concepts that are the basis of constructing and implementing a marketing strategy. Other topics include market research, product strategy, new technology and MD's, branding, multi-cultural marketing and promotional decisions, including crisis communications. The class work includes cases, theory and an independent project.

Prerequisite: Advanced graduate standing or Instructor's Consent.

MKT 551 Strategies Marketing (3 credits)

This course teaches students fundamental concepts and practices in marketing research and data analysis, and use of the data and financial analysis to set strategic positioning strategies. Students will learn both the primary source (such as surveys) as well as secondary sources (Internet, publications, etc.) in research techniques and engage to their own marketing research projects. . Emphasis will be on practical marketing research skills of development and basic analysis mechanism leading to strategic marketing. Although statistical analysis will be covered in the course, quantitative analysis skills will be the main focus. The course also supports an overview of quantitative and qualitative tools for strategic marketing, market segmentation process, strategic positioning, and channel marketing issues. Case studies and marketing requirements reports are required.

MKT552 International Marketing (3 units)

This course considers how culture and environment of different countries affect marketing strategy, how to perform a comprehensive analysis of a country to support marketing plan formulation, the strategic implications of different market groups around the world, and special insights on international marketing from a study of special cases.

Prerequisite: **MKT460** or instructor's consent.

MKT555 International Trade and Operations (3 units)

The course is designed to develop the knowledge and understanding of the global marketing environment and of the concepts, tools, and theory that will prepare the students to take the responsibility for successful global market penetration for his/her business organization. The perspective of the course is managerial, i.e., the ability to identify opportunity, resolve problems, and implement solutions and programs.

Prerequisite: Graduate standing or instructor's consent.

MASTER OF SCIENCE IN COMPUTER SCIENCE (MSCS)

BACKGROUND PREPARATION

Students admitted in to the MSCS degree program are required to have the following background preparation. A student with any deficiency is required to clear it by either (1) taking the course at Triton Institute and earning a grade of at least C-or higher or (2) taking and passing a proficiency exam on the subject. The student is advised to clear all deficiencies before attempting to enroll in graduate level courses.

1. **ENGLISH/COMMUNICATION:**
 - English communication (one of the following: CS407 or a college English course);
2. **COMPUTER SCIENCE SUBJECTS:**
 - Programming languages and Data structures (CS414, CS470);
 - Operating systems (CS440, CS490);
3. **ELECTRONIC SUBJECTS:**
 - (EE400, EE420);
4. **MEZZANINE COURSES:**

(Students with a background deficiency can take these courses and earn graduate credits)

 - Database Design (CS527)
 - Computer networks (CS530)

MSCS CURRICULUM

A minimum of **36 semester units of graduate study** are required for the MSCS program. A maximum of four (4) 4xx courses (400 level courses with a designation taken as elective courses) are allowed to count towards graduation credits. The student must meet prerequisite requirements when taking any of the following courses.

1.) Basic Courses (12.0 credits)

The required courses emphasize understanding of (1) the principles and architecture of Computer networks and (2) the design of modern operating systems. A student must take the following two courses to complete the required graduate course requirement. These two courses cannot be used to meet concentration coursework requirements.

CS511	Computer Architecture
CS527	Database Design
CS543	Advanced Computer Networks
CS546	Operating System Design

2.) Area of Concentration (12.0 credits)

In addition to the three required graduate courses in section I, a student must select an area of concentration and complete at least 12 units (four courses) listed in one chosen concentration area. This is to ensure the students competence in a selected area. As new courses are also offered between publications of school catalogs, the students are advised to refer to the

“Concentration area courses tables published with each release of the semester class schedule to select courses for meeting the concentration area requirements.

Area A. Internet Technology and Digital e-Business Systems

Required courses:

CS560	NET Web Programming
CS572	Advanced Java Programming
CS542	Software Engineering
CS570	Algorithms

3.) Courses for Breadth of Study (6.0 credits)

The student is required to take at least 6 units in graduate course work outside the chosen Concentration area. The courses may be at 400 level or 500 level And above. The student must observe the limits on the number of 400 level courses with a designation.

4.) Electives (6.0 credits)

The student may elect graduate-level courses in any discipline, in or outside the chosen Concentration area, to meet the elective requirements. Elective courses may also include Mezzanine courses taken to meet the background requirements for the program and/or For the chosen concentration area. The students must observe the limits on the number of 400 level courses with a designation.

Mezzanine Courses for Program Requirement

Students admitted with a background deficiency in (1) database design and/or (2) computer networks must take the courses (1) “CS527 database design” and/or (2)“ CS530 computer networks” at Triton. Credit earned can be counted as elective.

* Other background requirements for the concentration area:

Each concentration area requires certain 400 level background courses. Students may earn credit towards the degree, if observing the limit for the number of 400 level courses for the program, by taking the courses such as CS540.

MSCS TOTAL REQUIREMENTS (36credits)

COMPUTER SCIENCE COURSE DESCRIPTION

CS 360 COMPUTER FUNDAMENTALS (4.0Credits)

This is an introductory computer literacy course introducing the students to the basics of computer hardware structure, the World Wide Web, and MS Windows software tools. Topics include introduction to computer components, input/output, data storage, the Internet and the WWW, operating systems, data management and databases, software program development and programming languages, and ethics for technical professionals. Students also learn to use the latest Microsoft Office tools Word, Excel, Access, Powerpoint, MS Visual Basic, and the use of the Internet and browsers. Hands-on exercises are required.

CS 407 PROFESSIONAL DEVELOPMENT (2.0 Credits)

This course instructs the student to develop his/her professional career. Topics cover personality assessment, professional ethics, understanding the business professional world, recognizing company culture and organizational structure, career stages and paths, resume preparation, and interview techniques and business report/proposal writing.

Prerequisite: Placement by English exam or successful completion of advanced ESL classes.

CS 414 PROGRAM DESIGN AND ANALYSIS IN C (4.0 Credits)

This course is designed to teach C language syntax rules and the analysis of a structured programming language, with emphasis on practical applications in engineering and business problems. Methods of testing and debugging well-structured programs in C are also covered. Topics include problem specification and analysis, writing-editing-compiling-linking a C program, data types, operators and expressions, selection and repetition, arrays, pointers, functions, text files, dynamic memory allocation, strings, structures and unions, binary files, and bitwise manipulation and preprocessor directives. Hands-on exercises are required and the weekly lab session is an integral part of this course.

Prerequisite: CS360

CS 440 INTRODUCTION TO UNIX/LINUX (4.0 Credits)

This course is designed to familiarize the students with the UNIX/Linux environment. Topics include concepts of the UNIX/Linux operating system, Shell commands, Visual editor, file manipulation and securities, UNIX utility commands, Shell features and environment, online manual, controlling user processes and managing jobs, introduction of Regular Expression and its usage with grep, sed, and awk UNIX power utilities, basic Shell programming techniques, large file management, and the user programming environment customization. Hands-on exercises are required.

Prerequisite: CS360

CS 470 OBJECT- ORIENTED PROGRAMMING IN C++ (3.0Credits)

This course is designed to develop the students' abilities to design, code, and document application programs using object-oriented design and analysis concepts and methodology. Emphasis is on establishment of design objectives, criteria and specifications, processes of synthesis, analysis, construction, testing, and evaluation of open-ended problems. Topics include an introduction to general object-oriented programming as implemented in C++, data types, expression, statements, functions, program scope, run-time memory allocation, function overloading, template functions, class mechanism, derivation,

inheritance, and migration from C to C++. Labs may accompany lectures in partial class meetings during the semester. Hands-on exercises are required.
Prerequisite: CS414

CS 490 INTRODUCTION TO OPERATING SYSTEMS (3.0 Credits)

This course is designed to introduce students to basic concepts of modern operating systems, topics include processes, threads, microkernel, concurrency, memory management, file system. Hands on exercises are required.
Prerequisite: CS360

CS 511 COMPUTER ARCHITECTURE (3.0 Credits)

This course focuses on the techniques of quantitative analysis and evaluation of modern computing systems, such as the selection of appropriate benchmarks to reveal and compare the performance of alternative design choices in system design. The emphasis is on the major component subsystems of high performance computers: Pipelining, instruction level parallelism, memory hierarchies, input/output, and network-oriented interconnections. Students will undertake a major computing system analysis and design project of their own choosing.

Prerequisite: Instructor's Consent

CS 527 DATABASE DESIGN (3.0Credits)

This is the first of a series designed to teach relational database concepts, design, and applications. Topics include database architecture, relational model, structured query language (SQL), data manipulation (DML), data definition language (DDL), database design, ER modeling, database normalization, denormalization, and physical database design. Popular database systems, such as Oracle and Microsoft SQL server, are used for hands-on exercises and projects.

Prerequisite: CS414 or Instructor's Consent

CS 530 COMPUTER NETWORKS (3.0Credits)

This course is designed to give students a global picture of computer networks. Topics include network layered models (OSI, TCP/IP), data communication basics, circuit switching, packet switching, routing and internetworking. Hands-on exercises are required.

Prerequisite: CS490

CS 540 JAVA PROGRAMMING AND INTERNET APPLICATIONS (3.0Credits)

This course introduces students to the Java language, programming with object-oriented construct, GUI design and graphics programming and core Java libraries. Students will learn Java language basics such as syntax and classes, inheritance, interfaces, reflection, graphics programming, event handling, user-interface components with Swing, Java applets, exception handling, stream, and files. Hands-on exercises are required.

Prerequisite: CS470

CS 542 SOFTWARE ENGINEERING (3.0Credits)

This course is designed to demonstrate the engineering approach to the development of large, high-quality software projects. Topics include software life cycle, development process, requirement specifications, design and testing techniques, verification and validation, and software management. Students learn to use project management tools, principles, and environment to facilitate development of software programs/systems. Hands-on exercises and projects are

required.

Prerequisite: CS470

CS 543 ADVANCED COMPUTER NETWORKS (3.0 Credits)

This is the sequel to CS520, Computer Networks, and is designed for an in-depth study of computer networks. Emphasis is on modern Internet technologies and implementations. Topics include a review of computer networks, OS reference model, a study of emerging Ethernet technologies (Fast, Gigabit), client and server implementation with socket programming, local and wide area networks, TCP/IP, routing, network protocol and architecture, Internet protocol, and IP addressing. Projects are required.

Prerequisite: CS530

CS 546 OPERATING SYSTEM DESIGN (3.0 Credits)

This course offers graduate students an in-depth understanding and hands-on experience in modern operating system design and implementation. Topics include process, memory, file system, I/O, deadlocks, case studies of operating system implementations, modern distributed and network system architectures, communication and synchronization in distributed systems, threads and processor allocation, scheduling in distributed operating systems, distributed file systems, and case studies of modern distributed operating system design.

Projects are required

Prerequisite: CS490

CS 550 UNIX/LINUX SYSTEM PROGRAMMING (3.0Credits)

This course is designed for students to gain fundamental knowledge of and hands on experience with programming in unix/linux environment. students will learn to program in c with unix/linux system calls and other advanced topics such as unix file system, process control, signals and inter process communications. upon completion of this course, students should be able to develop real world unix/linux applications.

Prerequisite: CS440

CS 555 UNIX/LINUX NETWORK PROGRAMMING (3.0Credits)

This course is designed for graduate students to gain hands on experience in unix/linux programming. The students will learn to develop unix/linux network applications using a number of unix/linux network programming interface techniques including sockets, XTI ,RPC. Topics include: an overview of transport layer, TCP sockets, UDP sockets, threads and client server design, XTI, RPC and Streams.

Prerequisite: CS440

CS 560 NET WEB PROGRAMMING (3.0Credits)

This course provides students with the knowledge and skills needed to develop dynamic web-based applications using ASP.NET and gain an understanding of the new architecture behind ASP.NET. Topics include creating ASP.NET pages, creating Web custom controls and Web user controls, using validation controls and composite controls, using ADO.NET to access data from various data sources, configuring and securing a Web application, state management, error handling and debugging, and migrating existing web applications to ASP.NET.

Prerequisite: CS470

CS 567 NET WINDOWS PROGRAMMING (3.0Credits)

The goal of this course is to provide students with the knowledge and skills they need to develop C# applications and components for the Microsoft .NET

Platform, including Visual C# .NET Windows application development with Windows Forms and controls; user interfaces and navigation; error handling and debugging; data binding; consuming and manipulating data; components and .NET assemblies; Windows services; Remote; testing and debugging; application deployment and configuration. Hands-on practice is required.
Prerequisite: CS470

CS 570 ALGORITHMS (3.0Credits)

This course provides an in-depth analysis and efficient use of algorithms to solve problems. Well-structured programs are studied; modular, top-down design is emphasized. Topics include the use of data structures techniques to design efficient algorithms and analyze their complexity, efficient implementation of combinatorial algorithms, sorting, searching, and geometric problems, and branch and bound algorithms.
Prerequisite: CS360

CS 572 ADVANCED JAVA PROGRAMMING (3.0Credits)

This course is designed to give the students an in-depth understanding of Java programming techniques. The course focuses on advanced Java language features and packages which are essential for building a variety of application architectures. Topics include Java techniques of WAP, XML, JNI, thread, network programming, Servlet, JSP, JDBC, and internationalization. Upon completion of this course, the students should be well prepared to create enterprise-wide, Java-centric solutions to client/server problems involving Java and networks. Each technology topic will cover its uses, implementation, and language issues. Students are required to implement a project for each Java technique. Hands-on exercises are required.
Prerequisite: CS540

CS 580 DATABASE ADMINISTRATION (3.0Credits)

This course provides an in-depth understanding of the Oracle Database Management System. Emphasis is on the latest Oracle database architecture, database configuration and administration. Topics include logical/physical database layout, database server processes, database creation, various database physical objects; client/server configuration, multi-threaded server configuration, database storage management, database security, database utilities, database monitoring, partitions, and database backup/recovery methods. Hands-on practices are required.
Prerequisite: CS527

CS 587 ADVANCED DATABASE DESIGN AND DEVELOPMENT (3.0Credits)

This course is intended for graduate students to further explore database server development and database tuning. The course specifically details procedural extensions to SQL to develop stored procedures, functions, packages and database triggers. In addition, it covers database performance tuning from application development point of view by exploring query optimizer, database hints, and various database access methods. Hands-on exercises are required.
Prerequisite: CS527

CS 588 DATABASE AND INTERNET SERVER PROGRAMMING (3.0Credits)

This course introduces current client/server data access concepts on the Internet. It covers the fundamental concepts of the 3-tier model, Internet database access, and major tools and techniques utilized in application development. Topics include N-tier model, JDBC with database applications, Java Servlet, JSP and

JavaBean, WML, and XML. Hands-on exercises are an integral part of the course.

Prerequisite: CS527

CS 607 MASTER'S PROJECT (3.0 units)

The course is designed to develop the creativity of graduate students in Computer Science through the exercise of the design effort on a self-selected project. The design project must be open-ended, whereas the design approach must employ the modern design techniques and methodologies in the related fields. Completion of the design project entails 1.) Formulation of a design problem statement including realistic constraints such as economic factors, safety, and reliability issues, 2.) Design specifications, 3.) Consideration of alternate solutions, 4.) Manufacturing procedures and 5.) Operation instructions. The research topic and proposal must be approved by the project advisor. The report format must be in accordance with Triton's Project Style Guide and be approved by the advisor and tech writer. Upon completion of the project, the student is required to conduct an open-forum presentation of the project.

CS 609A MASTER'S THESIS - I (3.0 units)

This is the first part of a 2-part master's thesis course designed for a graduate student in the Computer Science program who plans to pursue his/her research interests in depth. Each part requires one trimester's effort to complete half of the entire project work. In this first part, the advisor will assist the student to identify the research topic, shape research ideas, and to define the research objectives and scope. The student then performs the following: topic studies, identifying software and/or hardware requirements, defining the project objectives and procedures, writing a project proposal and submitting it to the administration after obtaining his/her advisor's approval, working on research and implementation of the project, and documenting findings. Regular meetings with the advisor are required.

CS 609B MASTER'S THESIS - II (3.0 units)

This is a continuation of the first part of the master's thesis course. At the beginning of the semester, the student should draw a conclusion on the research and development work for the project and begin to write a thesis report following the required format. The student should make an analysis of the project work and results. Through this process, the student will gain in-depth knowledge of the selected subject and develop independent thinking and research capabilities. The report must be approved by the advisor and a tech writer. Upon completion of the project, the student is required to conduct an open-forum presentation of the project.

CS 647 XML AND WEB SERVICE DEVELOPMENT (3.0Units)

Markup language (XML) is rapidly becoming the standard information description language, and has been used in almost all areas related to computer and information technologies, such as Internet, semiconductor, bioinformatics, etc. Its usage will continuously grow. Web Services refer to the infrastructure that supports a rapidly emerging style for developing applications that rely on the Internet and WWW for portions of their functionality.

Prerequisite: either java or c#

CS 688 NETWORK SECURITY IN WIRELESS SYSTEMS (3.0Units)

This is the third in the Network Security series. A secure network is the fundamental requirement for network communication. Network security issues have become ever more important for any organization with network systems. This class mainly addresses the security issue in accessing the network,

including the security in wireless access. Many new proposals and technology have been developed in this field. The objectives of the class are to teach students the fundamentals in cryptography, the concept of security, and the practical use of virtual private networks (VPN). Topics include IPSec (IP Security), Web Security, VPN, and wireless network security. Some important RFCs will also be covered for the students to understand its development process in the network industry.

Prerequisite: CS543

7. FACILITIES

Teaching and Research

TRITON's teaching, research, and laboratory facilities are equipped with state-of-the-art hardware and software tools. In keeping pace with the advancement of information technology, TRITON's IT Department provides a modern digital campus environment to the faculty, students, and administrative staff.

Based on the hardware and software requirements for each course, the classroom is set up accordingly at the beginning of each semester. A group of classrooms are equipped with computer systems and Internet facility for the students to use. Modern design, simulation, and testing tools are installed based on class requirements.

University Library Resources

TRITON has always sought to increase the vast reference support and library resources made available to TRITON students, particularly our Master Degree students who need the most up to date research data, most commonly found in expensive subscription-based computer databases. TRITON has its own independent library, which contains five thousand books and a lot of useful information for students. And the Sunnyvale library is just 5 minutes walk away.

All TRITON students access privileges include: obtaining a library card; checking out books, CD's, DVD's and other materials; utilizing the new e-library; complete support from the university librarian; telephone reference support during library hours; support for multi-lingual students (including students who speaking Mandarin, Cantonese, Korean or Japanese); and full wireless access with their laptops within the library, and/or DSL direct connection services for those without a wireless card to store legally downloadable research data obtained from the library.

Computer Networks

There are a variety of high-performance computers on campus to support teaching and learning, including high-capacity servers, advanced workstations, and modern PCs. Wireless computers as well as high-speed Internet access are provided to the students on campus. The campus network has a node on the Internet, allowing faculty and students access to electronic mail, file transfer, and the World Wide Web. Each student and faculty member has an individual computer account and e-mail address. A separate T-1 line is designated for certain research projects and practicum laboratories to use.

8. FACULTY

Chi Iong Ansjory

- M.S degree in Computer Engineering, University of Southern California, 2000
- B.S degree in Electrical Engineering and Computer Science, UC Berkeley, 1999

Networking, Software engineering

Yu-An (Ryan) Cao

- Ph. D in Toxicology and Molecular Biology of Tongji Medical University, China, 1994
- M.S. in Toxicology and Biochemistry of XingJiang Medical University, China, 1991
- M.D. in Medical Science of Hubei Medical University School of Medicine, China, 1986

Chang Q Jiang

- Ph. D. in Systems Science, City University of London, UK, 1986
- MS in Engineering in Systems Engineering, Tianjin University, Tianjin, China, 1981
- BS in Electrical Engineering, Tianjin University, Tianjin, China, 1979

Electrical Engineering, Business Administration

Sunny Chiang

- Master of Arts and Science in Linguistics (TESL), Indiana State University, Terre Haute, Indiana
- Bachelor of Arts in Chinese Literature, Feng Chia University, Taichung, Taiwan
-

Elway H. May

- M.A. in Teaching English as a Foreign Language, American University in Cairo, Giza, Egypt
- B.A. in Middle East Studies, American University in Cairo, Giza, Egypt

Gong Yuan,

- Graduated from Harvard University with a Masters Degree in Regional Studies, 2007
 - Graduated from BeiJing Normal University with a bachelors degree
- Language, Business communication*

Nanci H. Kim

- M.A. TESOL, San Jose State University, San Jose, California
- B.A. English, San Jose State University, San Jose, California

Jonathan Lee

- MBA in accounting, University of Scranton, Pennsylvania, 1997
 - Bachelor of International Business, Fu-Jen Catholic University, Taiwan, 1993
- Accounting, Business Management*

Ling Li

- MBA in Project Management, Northwestern Polytechnic University, 2006
- Bachelor of Business Administration and Information System, Northwestern Polytechnic University, 2003

Hua-Ke Lin

- M.S in Engineering Management, Santa Clara University, 2005
 - M.S in Computer Science, Northwestern Polytechnic University, 2003
 - Bachelor of Science in Business Administration, TamKang University, 1997
- Programming, operating systems, computer networking, database systems.*

Ming (Mike) Mao

- Ph.D. Biotechnology, Stanford University, Palo Alto, California
- Ph.D. Microbiology and Immunology, Tong-Ji University, China
- M.S. Microbiology and Immunology, Tong-Ji University, China
- M.D. Medicine, Tong-Ji University, China

Kamilah McLean

- B.A. Communications and Sociology Minor, San Jose State University, San Jose, California
- Certification TESOL/TEFOL, San Jose State University, San Jose, California

Kathleen R. Miranda

- Ph.D. Northwestern University, Evanston, Illinois
- TESL/TEFL certification, University of California, Santa Cruz, California
- M.A, B.S. Syracuse University, Syracuse, New York

San Ming (Sammy) Ngai

- MBA, Northwestern Polytechnics University, Fremont, California
- BBAIS, Northwestern Polytechnics University, Fremont, California

Cynthia Wan

- Ph.D. Journalism & Mass Communication, University of Wisconsin-Madison, Madison, Wisconsin
- M.A. Journalism, University of Texas at Austin, Austin, Texas
- B.A. Journalism, Chinese Culture University, Taiwan

Naibo Yang

- Ph. D in Ion channel Physiology / Neurobiology, Thomas Jefferson University, 1996
 - MS in Biomedical Engineering & Instrument, Tianjin University, P.R. China, 1989
 - BS in Biomedical Engineering & Instrument, Tianjin University, P.R. China, 1986
- Biotechnology*

Yi Zhang Ph.D

- Ph.D in Electrical Engineering, University of California Santa Clara, 2007
 - M.S in Electrical Engineering, University of California Santa Cruz, 2005
 - B.S in optical engineering, Zhejiang University, 2003
- Nanostructured Material,
Optical technology*

Min Zhou

- Ph. D in Chemistry, University of Illinois, Chicago, IL
- MS in Computer Science, University of Illinois, Chicago, IL

•BS in Chemistry, University of Science and Technology of China, China
Computer Sciences