UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SILICON VALLEY

University of
Science and Technology
of Silicon Valley

University Catalog

Academic Year of 2019-2020

ACADEMIC POLICY COMMITTEE

9/1/2019

MISSION STATEMENT

University of Science and Technology of Silicon Valley (USTSV) is an academic institution of higher learning that is committed to providing a quality education to individuals whose goals include the development of rational, systematic, and critical thinking while striving to succeed in their chosen profession. USTSV believes that through acquisition of the knowledge presented in each of its educational programs students shall learn how to evaluate, analyze, and synthesize information and learn to develop critical thinking and problem solving skills that may be applied in a career environment. It is the mission of USTSV to fulfill the educational expectations of its students and faculty and to provide the community with professionals capable of meeting the challenges in their respective fields.

OBJECTIVES

To accomplish this mission, USTSV is committed to enhance student competencies by:

- Providing working adults with higher educational opportunities that are flexible and accessible;
- Providing graduate level students professional training and preparation for careers;
- Providing higher educational opportunities that are current with technology and career demands;
- Providing faculty members that have demonstrated expertise in, their respective domain, both professionally and academically;
- Integrating into the educational process a better understanding of cultural diversity needs;
- Delivering educational support services that meet student life demands and schedules;
- Building within students a value for life-long learning and education;
- Providing educational resources in a manner that effectively uses current technology.

USTSV is committed to the highest ethical standards in the pursuit of the mission. The policies, procedures, and standards guide USTSV core values set forth below. These values are honored in our daily structure and activity as members of this community. We are committed to respect the rights and dignity of others while conducting ourselves with integrity in our dealings with and on behalf of all individuals in our environment and are accountable as individuals and as members of this community for the ethical conduct and for compliance with applicable laws, University policies, and directives while conscientiously strive for excellence in our work.

NON-DISCRIMINATION POLICIES

USTSV does not discriminate on the basis of race, religion, color, national origin, sex, handicap or disability, or age in any of its policies, procedures or practices. The University's nondiscrimination policies comply with Title VI of the Civil Rights Act of 1964 (pertaining to race, color, and national origin), Title IX of the Education Amendments of 1972 (pertaining to sex), Vietnam Era Veterans Readjustment Assistance Act of 1974 (pertaining to veterans), and Section 504 of the Rehabilitation Act of 1973 (pertaining to age).

FACILITIES

In accordance with the USTSV's curricular emphasis on technology and business, the institution is located in a high-technology R&D and business development area at 608 N. EL CAMINO REAL, SAN MATEO, CA 94401-3713, situated just north of downtown San Mateo and west of where the Interstate 101, the Nimitz Freeway. The fully landscaped and abundant parking areas provide smooth traffic flow and easy building access; the peaceful neighborhood provides an appropriate learning environment for the students. The building is accessible to people using wheelchairs. The campus occupies an area of 2,500 square feet within the approximately 20,000 square feet of the one floor building that provides a front entrance, restrooms, a break room, an event area, two school administration offices and three classrooms. The building provides high speed Wi-Fi internet services to all students and faculties. The facilities have adequate lighting, are air-conditioned and wheelchair accessible. Free ample student parking (including handicapped) is available around the building.

The building is equipped with central heating/air conditioning systems. All classrooms have a temperature control unit and is equipped with an LCD projector connected to an instructor's demo computer with access to the campus networks system and the internet, and a projection screen in addition to other standard classroom provisions. Overhead projectors and are also available to the instructors.

OFFICE HOURS

Business office hours are Monday through Friday from 9:00 AM to 5:00 PM. Class sessions vary and are described in the course information section that accompanies each program. USTSV observes most major holidays and closes for a winter break between Christmas and New Year's Day. A complete listing is provided at the back of this catalog.

DISCLOSURE STATEMENTS

USTSV is a private postsecondary institute approved to operate by California's Bureau for Private Postsecondary Education (BPPE).

State approval is mandatory for an institution operating in California subject to the California Private Postsecondary Education Act of 2009 unless exempt from the Bureau oversight pursuant to CEC 94874 or 94874.1.

Only accrediting agencies can accredit an institution. Accreditation is a voluntary non-governmental review process.

USTSV and it degree programs are not accredited by an accrediting agency recognized by the United States Department of Education and students are not eligible for Federal or State Student Aid programs. A student enrolled in an unaccredited institution is not eligible for federal financial aid.

USTSV's degree programs are not intended to prepare graduates for any position that requires California State Licensure. This means our graduates are not eligible to sit for applicable licensure in California or other states.

A degree program that is unaccredited or a degree from an unaccredited institution is not recognized for some employment positions, including, but not limited to, positions with the State of California.

A student or any member of the public may file a complaint about this institution with the Bureau for Private Postsecondary Education by calling (888-370-7589) or by completing a complaint form, which can be obtained on the Bureau's Internet Web site (www.bppe.ca.gov).

If student obtains a loan to pay for an educational program, the student will have the responsibility of repay the full amount of the loan plus interest, less the amount of any refund, and that, if the student receives federal student financial aid funds, the student is entitled to a refund of the money not paid from federal student financial aid program funds.

As a prospective student, you are encouraged to review this catalog prior to signing an enrollment agreement. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement.

Any questions a student may have regarding this enrollment agreement that have not been satisfactorily answered by the institution may be directed to the Bureau for Private Postsecondary Education at 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, www.bppe.ca.gov, toll-free telephone number (888) 370-7589 or by fax (916) 263-1897.

This institution is committed to providing a work environment that is free of discrimination, intimidation and harassment. In keeping with this commitment, we believe that it is necessary to affirmatively address this subject and express our strong disapproval of sexual harassment. No one associated with this institution may engage in verbal abuse of a sexual nature; use sexually degrading or graphic words to describe an individual or an individual's body; or display sexually suggestive objects or pictures at any facility or other venue associated with this institution. Students are responsible for conducting themselves in a manner consistent with the spirit and intent of this policy.

USTSV does not have an articulation agreement or transfer agreement with any other school or university at the present time.

USTSV does not recognize acquired life experience and prior experiential learning as a consideration for enrollment or granting credit towards any program.

USTSV does not have, under its control or ownership, and is not affiliated with any dormitory or housing facilities.

The average cost for a room or apartment rental varying from between $800 for a room per month to $2,000 per month for a 2 bedroom apartment. Student Services will provide students information of accommodation in the area.

USTSV does not provide housing assistance services to the students. USTSV has no responsibility to find or assist a student in finding housing.

It is the policy of the institution to always provide a copy of the latest catalog either in print or electronically on the institution's website to all prospective students. This catalog pursuant to section 94909 of the Code, shall be updated annually. Annual updates may be made by the use of supplements or inserts accompanying the catalog. If changes in educational programs, educational services, procedures, or policies required to be included in the catalog by statute or regulation are implemented before the issuance of the annually updated catalog, those changes shall be reflected at the time they are made in supplements or inserts accompanying the catalog.

Prior to signing an enrollment agreement, you must be given this catalog and a School Performance Fact Sheet, which you are encouraged to review prior to signing any agreement with the institution. These documents contain important policies and performance data for this institution. This institution is required to have you sign and date the information included in the School Performance Fact Sheet relating to completion rates, placement rates, license examination passage rates, and salaries or wages, prior to signing an enrollment agreement.

The Chief Executive Officer (CEO) is responsible for monitoring new policies and procedures and maintaining the school in compliance with the California Private Postsecondary Education Act of 2009.

USTSV does not offer distance education courses and does not plan to offer distance education courses.

USTSV does not have a pending petition in bankruptcy, and is not operating as a debtor in possession, has not filed a petition within the preceding five years, or has not had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code (11 U.S.C. Sec. 1101 et seq.).

All instruction is conducted in English only.

USTSV is not approved to participate in State or Federal Student Aid programs.

ADMISSION POLICIES

GENERAL ADMISSION POLICY

Interested applicants may contact USTSV by visiting the institution's main website or by phone. In response to an inquiry from a prospective student, an information package is normally sent to the individual. A prospective student is encouraged to call the school and make an appointment to discuss the program they are interested in and arrange to see the school's facilities.

An admission representative will discuss the applicant's qualifications and assist him/her in determining the best way to meet his/her educational and/or career goals. The application and enrollment process begins with the completion of a general questionnaire and an initial interview with the admissions representative. The interview usually lasts approximately one half hour and may be conducted by phone or in person. During that time, the admissions representative will discuss the various aspects of the graduate program offered, tuition, a payment plan, and explain entrance requirements. This catalog detailing USTSV's method of instruction, programs, policies, admission standards, applicant's qualifications, and financial planning information will be provided. The institution's main website, www.USTSV.org also provides the same information as published in this catalog.

When the applicant is accepted, a Degree Plan generally referred to as an Individual Academic Plan (IAP) will be prepared listing the academic requirements that must be met for successful completion of the selected program.

ADMISSION REQUIREMENTS FOR THE MASTER DEGREES

Admission to the Master degree programs requires a Bachelor degree or its equivalent completed at an appropriately accredited postsecondary institution. The Master degree programs require 36 graduate semester credits completed beyond the Bachelor degree. USTSV will consider for transfer and may accept a maximum of 7 graduate semester credits in transfer toward a Master degree program, earned in graduate courses for which a grade of "B" or higher was earned.

To enable the evaluation of prior college work, official transcripts must be provided. Appropriately accredited postsecondary institutions are defined as those accredited by an accrediting agency recognized by the United States Department of Education, or by an accrediting agency recognized by the Council for Higher Education Accreditation (CHEA) or, for non-United States institutions, an educational institution approved by an equivalent authority.

Applicants with an undergraduate degree at the baccalaureate level from a school outside the United States must have their undergraduate transcripts evaluated by an independent National Association of Credential Evaluation Services (NACES) approved agency. The evaluation findings will be acceptable as satisfaction of the degree requirement when indicating that an applicant's degree is the equivalent of one received from a regionally or nationally accredited or approved college in the United States.

APPLICATION PROCESS FOR THE MASTER PROGRAMS

To apply for admission, the prospective student must complete the following:

1. Educational History:

Applicants must also submit their educational history as part of their application. The history must include names, locations, and colleges and/or universities enrollment information.

2. Proof of Undergraduate Degree Completion:

Applicants must present proof of their undergraduate degree and transcript in one of the following formats.

(a) Official copies sent directly to USTSV from an official authority (Ministry of Education, the school itself, etc.); the copies must be received unopened.

(b) Photocopies of the original degree and transcript approved by an official authority or by a notary.

(c) Original Diploma and transcript. Diplomas and transcripts that are not in English need to be submitted together with an official translation. In certain cases, the Admissions Office may require an applicant to present additional documentation.

VERIFYING ENGLISH PROFICIENCY

Applicants whose native language is not English and have not completed their studies at an accredited U.S. college or university must submit evidence of English proficiency through one of the following sources:

- Test of English as a Foreign Language (TOEFL) with a minimum score (master's degree) of 500 for paper based, or 71 for iBT Internet based.
- A transcript verifying completion of at least 30 semester hours of credit with an average grade of "C" or higher at an appropriately accredited college or university where the language of instruction was English; "B" or higher for master's degree.
- A transcript verifying a grade of "C" or higher in an English composition course from an appropriately accredited/recognized college or university; "B" or higher for master's degree.

Students who have completed their undergraduate degrees at a nationally or regionally accredited U.S. college or university are not required to submit TOEFL or IELTS scores.

REVIEW OF DOCUMENTATION

Any document sent by an applicant in support of his or her application may be reviewed by relevant institutions, including the institution issuing the documentation and/or by an established foreign evaluation service that can establish degree comparability.

Three credible providers of credential evaluations are World Education Services (WES www.wes.org); International Education Research Foundation (IERF www.ierf.org); and American Association of Collegiate Registrars and Admission Officers (AACRAO www.aacrao.org), but USTSV may also accept evaluations from other credible sources.

TRANSFER CREDIT

The transfer credit toward a degree may be awarded for postsecondary courses completed by students at other institutions if such courses are found to meet the standards of USTSV and the requirements of the specific program of interest. The registrar evaluates transcripts based on the following criteria and policies:

- ✓ Transfer institution is regionally or nationally accredited in the U.S. to grant graduate degrees.
- ✓ Courses are graded at least a 3.0 (B) on a 4.0 grading scale.
- ✓ Courses are graduate level at the transfer institution and constitute a fair and reasonable equivalent to current USTSV course work at the graduate level.
- ✓ Courses logically fit into the program for the degree.

A maximum of 20% of the total credits (7 semester credits) required to complete the program may be applied from credits transferred into the program.

NOTICE CONCERNING TRANSFERABILITY OF CREDITS AND CREDENTIALS EARNED AT OUR INSTITUTION.

The transferability of credits you earn at USTSV is at the complete discretion of the institution to which you may seek to transfer. Acceptance of the degree you earn in the educational program is also at the complete discretion of the institution to which you may seek to transfer.

If the credits or degree that you earn at this institution are not accepted at the institution to which you seek to transfer, you may be required to repeat some or all of your coursework at that institution. For this reason you should make certain that your attendance at this institution will meet your educational goals. This may include contacting an institution to which you may seek to transfer after attending USTSV to determine if degree or credits will transfer.

COMPLETING THE REQUIRED COURSES

Students are advised and individually guided through courses by direct contact with their Professors. With assistance from their Professors, students proceed from course to course in a steady, organized manner. This enables educational objectives to be achieved in the shortest possible time frame.

Upon enrolling in a course, the student receives a course syllabus and information about how to contact his/her Professor assigned for that course. USTSV works with an online supplier to provide textbooks for students. Students are encouraged to use the services; however, textbooks may be purchased from local college bookstores, from publishers, or from other suppliers.

The faculty and staff of USTSV are available to assist students in achieving their educational objectives. USTSV is especially sensitive to the special needs of adult students returning to college after a long absence from the classroom.

DEFINITION OF A SEMESTER UNIT

One semester credit hour equals, at a minimum, 15 classroom hours of lecture, 30 hours of laboratory, and 45 hours of practicum.

ATTENDANCE

Students with excessive absences or tardiness must see student services for advisement. Absenteeism may result in warnings, counseling, probation or dismissal. Dismissal could be for a particular course or for the entire program. Students that have been absent 3 or more days for a particular course may be placed on attendance probation. Students may be dismissed from the school if they are on attendance probation for 2 consecutive quarters unless they provide reasonable justification to the Department of Student Services.

LEAVE OF ABSENCE (LOA)

The purpose of a leave of absence (LOA) is to provide students with the opportunity to leave school for a certain period of time without withdrawing or affecting satisfactory academic progress. An LOA may be granted under the following circumstances: The student must present a sound reason as to why he or she is requesting an LOA which include but are not limited to: medical emergencies, military duty, pregnancy, death of an immediate family member, employment responsibilities, or personal hardships. The reason provided for requesting an LOA must carry a reasonable expectation that the student will return from LOA. Students must be in good academic standing. Requests for LOA must be in writing and include reason for the request. Students must complete an LOA request form from the Student Services Office, sign & date it, and attached any additional supporting documentation if necessary. A leave of absence together with any additional leaves must not exceed a total of 180 days in a 12-month period. The student will not incur any additional tuition charges during an approved LOA.

ACADEMIC POLICIES

GRADING AND EVALUATION PROCEDURES

At USTSV all the students' grades and evaluations are based on demonstrated performance during each course and the level of academic knowledge gained during the course. The grading will consist of letter grades of A through F with grade points as indicated in this catalog. Additional elements of essays, problems, projects and case studies will receive letter grades from the faculty based on the grading rubric established by the USTSV. Each course is based on a total of 100 maximum points.

Grade	GPA	Indicator
A	4.00	Excellent
A-	3.67	Excellent
B+	3.33	Above Average
B	3.00	Very Good
B-	2.67	Good
C+	2.33	Average
C	2.00	Satisfactory
C-	1.67	Below Expectations
D+	1.33	Poor
D	1.00	Unsatisfactory
D-	0.67	Failing
F	0	Failed
I		Incomplete
W		Withdrawal
P		Pass

GRADE POINT AVERAGE

A student's grade point average (GPA) is obtained by dividing the total number of points earned by the total credit hours attempted. Grades and symbols used to record academic progress are listed in the grading system table below. GPA is based on a maximum of 4.0. Grade points are assigned to all grades as follows:

Latin Honors

The USTSV uses the Latin Honors Distinctions outlined below:

- 3.50 to 3.69 -Cum Laude – with honors
- 3.70 to 3.89 -Magna Cum Laude – with high honors
- 3.90 to 4.00 -Summa Cum Laude – with highest honors

The grade points stated above will be used to calculate the GPA. Candidates for graduate degrees must maintain a 3.0 GPA to be in good standing. Failure to do so may result in academic probation or program in the length of time indicated below:

STANDARDS OF ACADEMIC ACHIEVEMENT

A student must meet the minimum standards of academic achievement and successful course completion while enrolled at the USTSV. All students must maintain satisfactory progress as determined by the qualitative and quantitative standards established by the institution. According to these standards, a graduate student remains in good standing if the student's cumulative grade point average (GPA) is 3.0 or above; and all students must progress toward the completion of their respective program within the maximum program length established. The USTSV does not allow students to remain enrolled who are not meeting the standards of satisfactory progress.

MAXIMUM DEGREE PROGRAM DURATION

The university understands that many students are working adults attending school part-time. Thus, most students' academic programs will extend beyond the normal duration for full-time students. However, we encourage students to complete their studies as expeditiously as possible. The maximum time to complete any degree program is one and an half times the program length unless mitigating circumstances such as illness exist. The normal length of each academic program is indicated in the curriculum description for the academic programs in this catalog.

The percentage of credit hours successfully completed must equal a minimum of two-thirds (2/3) of the credit hours attempted in order to be satisfactorily progressing with the USTSV's maximum time frame.

MINIMUM ACADEMIC ACHIEVEMENT

Failure of Master's degree candidates to maintain a 3.0 for any course will result in being placed on academic probation.

ACADEMIC PROBATION

A student who is making unsatisfactory progress at the end of a grading period will be placed on academic probation for the next grading period. If the student on academic probation achieves satisfactory progress for the subsequent period but has not achieved the required grades for overall satisfactory progress, the student may be continued on probation for one more grading period. If the student on probation fails to achieve satisfactory progress for the first probationary grading period, the student's enrollment will be terminated. If a student on probation fails to achieve satisfactory progress for the program at the end of two successive probationary grading periods, the student will be terminated. When a student is placed on academic probation, the student will be required to communicate with the Office of the Registrar prior to returning to class. The Office of the Registrar will inform the student of the date, action taken, and terms of the probation. This information will be clearly indicated in the appropriate permanent student's record.

Academic Dismissal/Suspension

Any student who fails to achieve overall satisfactory progress for the program at the end of two successive probationary grading periods will be suspended from enrollment.

Academic Suspension Reinstatement

A student whose enrollment is suspended for unsatisfactory progress may reapply for admission after a minimum of one grading period. A student who returns after the enrollment was suspended for unsatisfactory progress will be placed on probation for the next grading period. The student will be advised of this action, and the student's file documented accordingly.

Academic Dismissal/Termination

If the student does not maintain satisfactory progress during or by the end of this final probationary period, then the student's enrollment will be terminated. Application of Standards: Satisfactory academic progress standards apply to all students and include all periods of the student's enrollment.

Appeals

Should a student disagree with the application of these satisfactory progress standards, he/she must first discuss the problem with the appropriate instructor(s). The student may then appeal to the Chief Academic Officer. If the situation is not resolved, the process that will be followed is explained under the Arbitration section of this catalog.

INCOMPLETES

Students receiving, at the discretion of the faculty member, a grade of "I" will be evaluated according to the minimum standard for academic progress and will be re-evaluated at the end of the first two weeks of the following course during which time the student may complete missing work. Courses indicating an "I" at the end of the two-week period will become an "F" with a "0" added to the GPA.

A student who withdraws during the last quarter of his/her program will receive a grade of "incomplete" if the student requests the grade at the time of withdrawal and the student withdraws for an appropriate reason unrelated to the student's academic status. A student who receives a grade of incomplete may reenroll in the program during the 12-month period following the date the student withdraws and complete those incomplete subjects without payment of additional tuition.

WITHDRAWN, WITHDRAWN FAILING, TRANSFER OF CREDITS

If a student withdraws prior to the mid-point in a course, the student receives a "W" and the GPA is not affected. If a student withdraws after the mid-point, the student receives a "WF" and receives a "0" for the course at the discretion of the faculty member. This is included in the GPA. Transfer of credit courses does not affect the GPA. The student who receives a "W" grade will have a 12-month period following the date the student withdraws to complete the course at no additional tuition.

REPEATING A COURSE:

Students must repeat courses in which they have received an "F" grade or from which they withdraw. Students will be charged the regular tuition fees for each course they repeat in which they received an "F" grade. Graduate students must earn a cumulative GPA of 3.0 or higher on a 4.0 scale on all courses that carry a graduate credit. At USTSV, no grade below C is acceptable for credit toward a graduate degree and if a student receives a grade below C in any graduate course, that course must be repeated. The new grade will replace the old grade for grade point average calculation but the old grade will remain in the transcript. For students who wish to improve their grade, the fee for repeating a course is the same as the regular tuition.

MAKE-UP WORK

Make-up work is handled by faculty members on a case by case basis. Make-up work may be required for any absence. However, hours of make-up work cannot be accepted as hours of class attendance.

REINSTATEMENT

Students who are placed on Academic and/or Financial Hold may apply to be reinstated as "active students." To change the status to active, students must submit a completed application for reinstatement along with a fee of $400.00. Additional tuition fees will apply to uncompleted coursework.

STUDENT SERVICES

Every student will be provided with an ID card that is supposed to be worn at all times while in premises. Students without ID card will not be permitted to access any of the institute's resources.

Student Services furnishes information on public transportation, general costs in the area of childcare, and points of interest.

The Department of Student Services will oversee the management of the career placement services offered to students and graduates via the USTSV Online Service Center on the institution's website which shall always be accessible to students using their university password to log into the career placement services section of the school's website.

NON-ACADEMIC COUNSELING

The Department of Student Services offers assistance with personal and interpersonal issues such as relationships, cultural differences, assertiveness, and self-esteem. If a student needs a professional counselor, the Department of Student Services will help the student find a suitable counselor. Additionally, the Student Services Office helps students with educational/vocational concerns such as coping with university life, academic performance, test anxiety, reentry adjustment, and determining life goals. Students are encouraged to seek assistance from a counselor in dealing with any problems that might affect their success at USTSV.

STUDENT INTERACTION AND STUDY GROUPS

Group study will be incorporated when feasible. Students coming together, sharing ideas, and preparing is a delightful part of the college environment be it direct or virtual. Group study is a helpful way to re-enforce the personal first time study and expand the range of learning. Interaction will be the essence of the instructor's facilitative tasks.

LIBRARY SERVICES AND LEARNING RESOURCES

USTSV provides its students with access to online library services allowing the students to perform research on topics covered in each of the degree programs. The libraries utilize research databases providing the student with the most thorough and up-to-date research material available. Students are encouraged not only to learn from classes but also to pursue independent research by using these resources and services organized by the Director of Library Services who spends 5 to 10 hours a week on campus and is on-call for at least 40 hours per week to provide assistance to students as needed via the University's website and to reply to student and faculty members inquiries via email within 10 hours of receipt.

The MBA student is provided access to ABI/INFORM the ProQuest library database where the students can research for scholarly and peer reviewed journals. The student is expected to fully utilize the ProQuest

library database when addressing discussion questions, written assignments, course research projects (CRPs), and the doctoral dissertation.

The MSCSE student is provided access IEEE/IET Electronic Library (IEL): Unlimited, full-text access to the entire IEEE and IET collection of journals, magazines, and conference proceedings, plus all active IEEE standards. Each student is provided access to these databases where the students can research for scholarly and peer reviewed journals. The student is expected to fully utilize these resources when addressing discussion questions, written assignments, course research projects (CRPs), and the Capstone courses.

ACADEMIC ADVISING AND COUNSELING

Academic advising and counseling is an essential element of the educational process. Faculty members serve as academic advisors and counselors to the students.

Although online registration is available to the student, he/she is welcome to meet with a faculty member before and during the course registration period each semester. During the meeting, they will examine the student's study plan and academic records, verify course prerequisites, and choose suitable courses to enroll. Academic advising is also available to students throughout the school year. In addition to helping students plan course schedules, academic advisors may also encourage students to explore their academic options and personal goals in preparation for entering the professional world.

To ensure satisfactory progress of each student, the administrative staff including the Chief Academic Officer and the Director of Student Services maintain close contact with the faculty to monitor those students who may need extra help. Class attendance records, available online to the staff, are used as one input for student counseling. The student is to be contacted for counseling when either of the following occurs: (1) The staff is informed by any faculty member who is concerned about the student's performance in the class at any checkpoint during the semester, (2) the student has a poor attendance record, (3) the student is placed in academic-probation status.

CAREER PLACEMENT SERVICES

USTSV does not guarantee employment to any student upon graduation. USTSV does provide all graduates with assistance regarding placement opportunities, resume preparation, job search assistance and interview counseling and advising concerning job search and job interview techniques. Placement assistance is available to all graduates of the institution. Additionally, USTSV is required under California law to track placement of it graduates for a period of up to 6 months upon completion of their program and to verify placement 2 months after employment.

As a key component of Student Services, career placement services help the students in the following areas: (1) Prepare resumes and sharpen interview skills, (2) Conduct career seminars and job fairs, (3) Identify the students' strengths and interests and provide career advice, (4) Provide internship

opportunities to the students, and (5) Provide library materials and an online tool (via the USTSV Online Service Center) for the students to gain access to various sources of job related information. The Student Services in collaboration with the library, provides the students with access to a collection of books, articles, magazines, brochures, and videotapes about employment opportunities. Employment information can be found on the online job posting board through the eCareer Center on the USTSV Online Service Center site. The service provides career planning and job search assistance prior to and after students' graduation.

RETENTION OF STUDENT RECORDS

The records for students, including a transcript of academic progress, shall be kept in files maintained in fireproof cabinets in such a way that adequate information is maintained by the institution for a period of 5 years from the student's date of completion or withdrawal to show student advancement, grades, and that satisfactory standards are enforced relating to progress and performance. All student files are kept in the Department of Student Services office. A daily backup is made and stored "in the cloud" off-site by a professional provider with a secure file repository, backup and recovery system.

USTSV is required to maintain student records for a minimum of 5 years while student transcripts will be maintained indefinitely and made immediately available during normal business hours, and for inspection by officials from the State of California Bureau of Private Postsecondary Education, or the State of California Attorney General's office showing the following:

- The names and addresses, both local and home, of each of its students;
- The courses of study offered by the institution;
- The names and addresses of its instructional staff, together with a record of the educational qualifications of each, and;
- The degrees or diplomas and honorary degrees and diplomas granted, the date of granting, together with the curricula upon which the diplomas and degrees were based.

TRANSCRIPTS OF RECORDS

The USTSV will supply one official transcript upon graduation. Requests for additional transcripts must be made in writing and signed by the student. There is a $15.00 charge for each transcript requested. For transcripts mailed outside of the U.S., there is an additional shipping fee of $50.00. Students requesting release of academic records and transcripts to employers or other groups or agencies must sign an authorization request and follow the procedures outlined in this section. In addition students are informed that they may file complaints with the Family Educational Rights and Privacy Act Office of the United States Department of Education (FERPA) concerning alleged failures by the school to comply with the Family Rights and Privacy Act of 1974 (the 'Buckley amendment'), as amended, in relation to the procedures and decisions involved with any such matters.

STUDENT POLICIES AND PROCEDURES

The following paragraphs detail the standards of conduct that California Science and Technology University expects all of its members, students, staff, and faculty alike. Students are subject to disciplinary action, including suspension or dismissal from the academic program, for violations of the University's policies regarding personal conduct.

ACADEMIC INTEGRITY POLICY

USTSV expects that all academic work submitted by students be original, or in the case of cited material, properly acknowledged as the work, ideas, or language of another. Further, all acts of academic dishonesty are strictly prohibited. These include, but are not limited to, cheating, plagiarism, fabrication, unauthorized collaboration, misappropriation of resource material, or any other violation of University regulations.

SEXUAL HARASSMENT POLICY

Whether verbal or physical, in person or by telephone, sexual harassment is an act of aggression. It is a violation of federal law under (section 703 of the Civil Rights Act of 1964 and under Title IX Education Amendments of 1972). USTSV encourages students and employees to confront sexual harassment, to report incidents and/or to seek advice and assistance. USTSV has both a moral and legal obligation to investigate all complaints of sexual harassment and to pursue sanctions when warranted.

It is the policy of the University that all persons, regardless of their sex, should enjoy freedom from discrimination of any kind. "Sexual harassment" means any unwelcomed sexual advances, request for sexual favors, and other verbal, visual, or physical conduct of a sexual nature made by someone from or in the work or educational setting, under any of the following conditions:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or status in a course, program, or activity.
- Submission to or rejection of such conduct is used as the basis for employment or educational decisions affecting that individual. Such conduct has the purpose or effect of unreasonably interfering with an individual's work performance or educational experience, or creates an intimidating, hostile, or offensive environment for working or learning.
- Such conduct has the purpose or effect of unreasonably interfering with an individual's academic performance, or of creating an intimidating, hostile, or offensive educational or working environment.

USTSV is committed to taking appropriate action against those who violate the policy prohibiting sexual harassment. USTSV is committed to protecting victims of harassment from retaliation.

DRUG AND ALCOHOL POLICY

The University recognizes the health risks associated with the use of illicit drugs and the abuse of alcohol, and is committed to providing a drug-free educational environment and workplace. The University prohibits the unlawful manufacture, distribution, dispensation, possession, or use of any controlled substance and the abuse of alcohol by students and employees on University property or as part of any of its activities. Individuals found to be in violation or engaged in serious misconduct are subject to legal sanctions under local, State, or Federal law, as well as any administrative sanctions that the University may impose.

USTSV complies with the Drug-Free School and Communities Act Amendments of 1989, Public Law 101-226, and the Drug- Free Workplace Act of 1988, Public Law 100-690. The University supports the purpose of this legislation and provides copies of the school policies governing drug and alcohol abuse to all employees and students.

CAMPUS SAFETY

All students, staff, faculty and guests are encouraged to promptly report criminal incidents, accidents and other emergencies to local authorities. We also require that all restraining orders in effect be reported. This allows us to maintain and increase safety on campus. Please report incidents to a member of our staff at Registrar's Office.

Campus Security Report

The Federal Campus Security Act of 1990 requires all colleges and universities receiving federal funds to provide annual statistics on several categories of crime. A recap of that report follows:

Category / Year	2014	2013	2012
Murder	0	0	0
Rape	0	0	0
Aggravated Assault	0	0	0
Robbery	0	0	0
Motor Vehicle Theft	0	0	0
Burglary	0	0	0
Arson	0	0	0
Drugs Possession / Use	0	0	0
Unlawful Use / Alcohol	0	0	0
Weapons Use	0	0	0
Liquor Law Violations	0	0	0
Drug Abuse	0	0	0

COMPLAINT/GRIEVANCE PROCEDURE

From time to time, differences in interpretation of University policies will arise among students, faculty, and/or the administration. When such differences arise, we urge students and staff to communicate any problems that arise directly to the individual(s) involved. If the problem cannot be resolved in this manner, the University administration should be contacted. Normally, the informal procedure of discussing the difference will resolve the problem.

Any student who feels that he or she has been subjected to unfair treatment by the University by any of its employees, entities, policies, procedures or programs may report the matter in writing to the Chief Executive Officer for review and action. The Chief Executive Officer (CEO) is located in the administrative location of USTSV and is open Monday through Friday 9 AM to 5 PM. On making the complaint, the student will be advised of the next step, depending on the nature of the complaint.

The first step would be to attempt to resolve the complaint informally. If the complaint is resolved satisfactorily to all parties concerned the case shall be closed, with a written notice to that effect sent to the complainant and the respondent. If no informal resolution is possible, and the student wishes to pursue the complaint, the grievance may be referred to the Bureau of Private Postsecondary Education (BPPE) State of California, P.O. Box 980818, W. Sacramento, CA, 95798- 0818, www.bppe.ca.gov, 916-431-6959

ARBITRATION AT USTSV

Alternative Dispute Resolution: While no one expects disputes and conflicts, sometimes they do occur; and it is in the best interests of the parties to resolve the dispute in the simplest, fastest, and least expensive manner. Students at USTSV therefore agree to follow the three steps below:

Step One: Any and all disputes, conflicts, problems, controversies, or claims of any kind, without exception, arising from or connected to enrollment and attendance at the University ("dispute") should first be taken up with the Chief Executive Officer of Student Affairs. If the dispute is not then resolved, a written statement should be made of each party's position and submitted to the Student Affairs Office, and to the Office of the President for a final decision. The parties may proceed to

Step Two if the dispute is not resolved in Step One.

Step Two: The parties agree that any dispute should be resolved through mediation. Any such mediation will be held in the city in which the student resides. The parties agree to attend and make a sincere and good faith effort to resolve the dispute through this mediation.

Step Three: The parties agree that any dispute arising from enrollment, no matter how described, pleaded or styled, shall be resolved by binding arbitration under the substantive and procedural requirements of the Federal Arbitration Act conducted by the Better Business Bureau (BBB).

All determinations as to the scope, enforceability and effect of this arbitration agreement shall be decided by the arbitrator, and not by a court. The award rendered by the arbitrator may be entered in any court having jurisdiction.

I: Terms of Arbitration:

A. Both Student and the University irrevocably agree that any dispute between them shall be submitted to binding Arbitration.

B. Neither the Student nor the University shall file or maintain any lawsuit in any court against the other, and agree that any suit filed in violation of this Agreement shall be dismissed by the court in favor of an arbitration conducted pursuant to this Agreement.

C. The costs of the arbitration fee, filing fee, arbitrator's compensation, and facilities fees will be paid by the University, to the extent these fees are greater than a district court filing fee.

D. The arbitrator's decision shall be set forth in writing and shall set forth the essential findings and conclusions upon which the decision is based.

E. Any remedy available from a court under the law shall be available in the arbitration.

II: Procedure for Filing Arbitration:

1. Students are strongly encouraged, but not required, to utilize the first two steps of the grievance procedure described above, prior to filing arbitration.

2. A student desiring to file arbitration should first contact the Chief Executive Officer of Student Affairs, who will provide the student with a copy of the BBB rules at no cost. A student desiring to file arbitration should then contact the BBB, which will provide the appropriate forms and detailed instructions. The student should bring this form to the BBB.

3. A student may, but need not to, be represented by an attorney at the Arbitration.

Acknowledgement of Waiver of Jury Trial and Availability BBB Rules: By signing the Enrollment Agreement, each party understands the nature of arbitration; that arbitration is final and binding, and each party is waiving certain rights, including, but not limited to, its right to litigate its dispute in court, including its right to a jury trial. Both parties understand that the award of the arbitrator will be binding, and not merely advisory.

STUDENTS WITH DISABILITIES

The University complies with the Americans with Disabilities Act of 1990 and Section 504 of the Federal Rehabilitation Act of 1973. Accordingly, qualified persons with disabilities cannot, on the basis of disability, be denied admission or subjected to discrimination in admission decisions. Further, no qualified disabled student may be excluded from any academic, research, counseling, financial aid, or other post- secondary education program or activity that the University provides to all students on the basis of that student's disability.

STUDENT DISCIPLINE

Students are expected to conduct themselves in a responsible manner that reflects generally accepted moral standards, honor, and good citizenship. They are also expected to abide by the regulations of the University. It is the student's responsibility to maintain academic honesty and integrity, and to manifest a commitment to the goals of the University through proper conduct and behavior. Any form of academic dishonesty, or inappropriate conduct by students or applicants, may result in penalties ranging from warning to dismissal as deemed by USTSV. Any such disciplinary action will be taken following the procedures of due process. Due process mandates that students be given notice and an opportunity to be heard, that is, informed in writing of the nature of the charges against them and provided with an administrative hearing on the issues and provisions for appeal.

REASONS FOR PROBATION, SUSPENSION, AND DISMISSAL OF STUDENTS

Following the procedures consistent with due process, students may be placed on probation, suspended, dismissed, or given a lesser sanction for any of the following reasons:

Plagiarism: Plagiarism is the presentation of someone else's ideas or work as one's own. An obvious form of plagiarism is intentionally stealing someone else's work. Using another person's sentence, phrase, or even a word that a person coined requires students to acknowledge the source of the sentence, phrase or coined word. To acknowledge the source, students can either use quotation marks or paraphrase the author. In both cases, students must cite the source of the quotation or paraphrased ideas properly.

Cheating or Other Academic Dishonesty

Any form of academic dishonesty reveals a serious lack of personal integrity and detracts from the quality of a student's education. As such, cheating is a violation of University policy, because it diminishes the quality of student scholarship and defrauds those who rely on the integrity of the University's academic programs.

Academic dishonesty is considered to be any form of cheating or plagiarism (see above), or an attempt to obtain credit for academic work through fraudulent, deceptive or dishonest means. The following are examples of academic dishonesty, but are not intended to be inclusive:

- Using or attempting to use, unauthorized materials, information, or study aids in any academic exercise, such as copying from another student's test
- Submitting work previously presented in another course
- Using sources or materials not authorized by the instructor in an examination
- Altering grading materials
- Sitting for an examination by a surrogate or acting as a surrogate
- Conducting any act which defrauds the results of the academic process
- Violating software copyrights

A faculty member has two options to resolve issues of cheating or plagiarism. The first option is to take care of the matter himself or herself and the second option is to refer the matter to the University for appropriate Action.

When an instructor has adequate evidence of academic dishonesty on the part of a student, the instructor can take action against the student under the first option. Variables affecting the severity of student penalties include whether the dishonesty was premeditated, the extent of the dishonesty (one answer or an entire project), the relative importance of the academic exercise (e.g., quiz or final examination), and whether the dishonesty was active or passive (e.g., copier versus the copyee). Specific penalties that are considered are:

- Review with no action
- Warning
- Requirement that the work be repeated
- Reduction of grade on specific work in question
- A failing grade for the work in question, or for the entire course
- Any other penalty appropriate under the circumstances

The guidelines for appropriate penalties include an oral reprimand in cases where there is a reasonable doubt that the student knew that the action constituted academic dishonesty, an "F" on the particular paper, project or examination when the act was not premeditated or there were significant mitigating circumstances, or an "F" in the course where the dishonesty was premeditated or planned. The instructor will document and report his or her action to the Chief Academic Officer.

If the instructor utilizes the second option, he or she will notify the University of the type of academic dishonesty observed, provide a written statement regarding the matter, and provide the University with

the names of all witnesses and all information and documentation necessary to prepare a disciplinary hearing or other appropriate action by the University. Any of the specific penalties and guidelines for appropriate penalties above may be considered by the University. In the case of repeated infractions by a student, the University may exercise the option of dismissal.

Action by both the instructor and the University can be appealed through the appeal procedures set forth below.

NON-ACADEMIC REASONS FOR STUDENT DISCIPLINE

In addition to the reasons noted above, students may be disciplined for any of the following reasons:

- Forgery, altering University documents, or knowingly providing false information;
- Disruption of the educational or administrative process of the University, by acts or expression;
- Physical abuse or destruction of University property;
- Physical abuse or threat of abuse to students, University employees, or their families;
- Verbal abuse or intimidation of students or University employees including shouting, use of profanity or other displays of hostility;
- Theft of University property;
- Sale or knowing possession of illegal drugs or narcotics;
- Possession or use or threats of use of explosives or deadly weapons on University property;
- Lewd, indecent, or obscene behavior on University property or by telephone;
- Soliciting or assisting another in an act which would subject students to a serious University sanction;
- Any action which would grossly violate the purpose of the University or the rights of those who comprise the University;
- Any act, omission to act or conduct which would be considered a crime under federal/state/local law.

Disciplinary action may include probation, suspension, and dismissal from the University and/or notification to Department of Homeland Security. Students suspected of committing any violation of University policy are accorded procedures consistent with due process typically before disciplinary action is imposed. However, inappropriate circumstances students may be suspended prior to a due process hearing.

Any violation of university policy (including all forms of academic dishonesty) can result in a student being barred from graduate or professional schools at this or other universities. In addition, violating University policy can make a student ineligible for government commissions or other employment.

STUDENT RIGHTS

USTSV has adopted policies with regard to student rights and grievances that are maintained in the University's policy manuals. The University's policy seeks to treat all students with respect and fairness. All students may request access to or release of, at reasonable times, his or her education records as maintained by the University. Such a request must be in writing and addressed to the registrar. The written request must specify the records that the student desires to access or to be released, and to whom released. A student may request any special letters or copies of documents pertaining to his/her student file, but must pay the cost of producing or reproducing such documents.

A student may request changes in his or her records. If, on proper showing of evidence, a material error in the record is proved, a change or correction will be made. The University has adopted a policy whereby all students have the right to appeal decisions of faculty and staff based upon university policy.

Any questions a student may have regarding this catalog that have not been satisfactorily answered by the institution may be directed to the Bureau for Private Postsecondary Education at 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833 or P.O. Box 980818, West Sacramento, CA 95798- 0818, www.bppe.ca.gov, (888) 370-7589 or by fax (916) 263-1897

A student or any member of the public may file a complaint about this institution with the Bureau for Private Postsecondary Education by calling (888) 370-7589 or by completing a complaint form, which can be obtained on the bureau's internet web site (www.bppe.ca.gov)

COURSE MATERIAL ISBN AND PURCHASING INFORMATION

USTSV does not have a student bookstore. Students are required to purchase textbooks required for their courses on the open market. In accordance with the current HEOA requirements, USTSV will provide the ISBN and retail price of our texts along with information on various purchasing options and buyback programs. The ISBN and price information are provided in the syllabus. Course materials can be purchased from any source, the USTSV website offers a convenient means of obtaining required course materials. USTSV cautions students about obtaining course materials from overseas sources because of the risk of delivery time and quality of the materials. Purchase decisions should not be based on the purchase price alone

SCHEDULE OF CHARGES

Program of Study	Registration	Tuition Fee	STRF *	**Total Cost	***Tuition Fee per credit
	Non refundable	Refundable	Non Refundable		
Master of Business Administration	$100.00	$15,000.00	$0.00	$15,100.00	$400.00
Master of Computer Science and Engineering	$100.00	$15,000.00	$0.00	$15,100.00	$400.00

*Since January 1st 2015 the *Student Tuition Recovery Fund (*STRF) fee has temporarily been reduced to $0.00

**The estimated schedule of total charges for the entire educational program.

***The schedule of total charges for a period of attendance.

Student must purchase the text book required for their course before class at student own cost.

ADDITIONAL FEES

The following fees and charges are costs that students may incur beyond the basic tuition cost for specific degree programs. Fees are charged when services are rendered.

International Transcripts Evaluation Fee	$200.00
Late Registration Fee	$50.00
Master Level Graduation Fee	$200.00
Additional Transcript Fee	$20.00
Change of Program Fee	$40.00
Course Extension Fee (4 Week Extension)	$40.00
Leave of Absence Fee	$80.00
Returned Check Fee	$30.00

Return Check and Credit Card Declines Policy

Students are responsible for all fees relating to checks returned from the bank due to nonpayment. The USTSV charges a fee of $30.00 for any returned check or credit card declined.

STUDENT TUITION RECOVERY FUND

You must pay the state-imposed assessment for the Student Tuition Recovery Fund (STRF) if all of the following applies to you:

1. You are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition either by cash, guaranteed student loans, or personal loans, and

2. Your total charges are not paid by any third-party payer such as an employer, government program or other payer unless you have a separate agreement to repay the third party.

You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if either of the following applies:

1. You are not a California resident, or are not enrolled in a residency program, or

2. Your total charges are paid by a third party, such as an employer, government program or other payer, and you have no separate agreement to repay the third party.

The State of California created the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic losses suffered by students in educational programs who are California residents, or are enrolled in a residency programs attending certain schools regulated by the Bureau for Private Postsecondary Education.

You may be eligible for STRF if you are a California resident or are enrolled in a residency program, prepaid tuition, paid the STRF assessment, and suffered an economic loss as a result of any of the following:

1. The school closed before the course of instruction was completed.

2. The school's failure to pay refunds or charges on behalf of a student to a third party for license fees or any other purpose, or to provide equipment or materials for which a charge was collected within 180 days before the closure of the school.

3. The school's failure to pay or reimburse loan proceeds under a federally guaranteed student loan program as required by law or to pay or reimburse proceeds received by the school prior to closure in excess of tuition and other costs.

4. There was a material failure to comply with the Act or this Division within 30 days before the school closed or, if the material failure began earlier than 30 days prior to closure, the period determined by the Bureau.

5. An inability after diligent efforts to prosecute, prove, and collect on a judgment against the institution for a violation of the Act.

However, no claim can be paid to any student without a social security number or a taxpayer identification number.

CANCELLATION AND REFUND POLICY

STUDENT'S RIGHT TO CANCEL

You have the right to cancel the enrollment agreement you sign for a course of instruction including any equipment, such as books, materials, and supplies, or any other goods and services included in the agreement, and obtain a refund of charges paid through attendance at the first class session, or the seventh day after enrollment, whichever is later. Cancellation shall occur when you give written notice of cancellation at the address of the university shown on the top of the front page of the enrollment agreement. You can do this by mail, hand delivery, or telegram. The written notice of cancellation, if sent by mail, is effective when deposited in the mail properly addressed with postage prepaid. The written notice of cancellation need not take any particular form, and, however expressed, it is effective if it shows that you no longer wish to be bound by your enrollment agreement. You will be given notice of cancellation form with this enrollment agreement and on the first day of class, but if you choose to cancel, you can use any written notice that you wish. If the school has given you any equipment, including books or other materials, you shall return it to the university within 30 days following the date of your notice of cancellation. If you fail to return this equipment, including books, or other materials, in good condition within the 30 day period, the school may deduct its documented cost for the equipment from any refund that may be due you. Once you pay for the equipment, it is yours to keep without further obligation. If you cancel the agreement, the school will refund any money that you paid, less any deduction for equipment not timely returned in good condition, within 45 days after your notice of cancellation is received.

WITHDRAWAL FROM COURSE: The institutional refund policy for students who have completed 60 percent or less of the course of instruction shall be a pro rata refund. After the end of the cancellation period, you have a right to terminate your studies at this school at any time, and you have the right to receive a refund for the part of the course or program you have paid for and did not receive. You have the right to withdraw from the course of instruction at any time. If you withdraw from the course of instruction after the period allowed for cancellation, the school will remit a refund, less a registration fee $90.00, within 45 days following your withdrawal. You are obligated to pay only for educational services rendered and for unreturned books or equipment.

(A) Deduct a registration fee ($100) from the total tuition charge paid.

(B) Divide this figure by the number of days in the program.

(C) The quotient is the daily charge for the program.

(D) The amount owed by you for purposes of calculating a refund is derived by multiplying the total days attended by the daily charge for instruction.

(E) The refund would be any amount in excess of the figure derived in (D) that was paid by you.

(F) The refund amount shall be adjusted for equipment, if applicable.

For example: If the tuition for the course is $1200 and the course lasts 12 weeks then the weekly charge would be $100. If you then withdraw after 5 weeks you would calculate your refund as follows: You would owe 5 weeks x $100 = $500. If you paid the total tuition charge of $1200 then you would deduct $500 from $1200 and you would be entitled to $700 refund.

If you obtain books or equipment, as specified in the enrollment agreement and return them in good condition within 30 days following the date of their withdrawal, the school shall refund the charge for the books or equipment paid by you. If you fail to return books or equipment in good condition within the 30 day period, the school may offset against the refund the documented cost for books or equipment exceeding the prorated refund amount.

TUITION PAYMENT METHODS

Please note that USTSV does not participate in federal and state financial aid programs. USTSV accepts payment for tuition, books, equipment and other fees through cash payment, VISA, MasterCard, or personal or third party checks.

At the school's discretion, installment payments may also be arranged. Students assume the responsibility for payment of the tuition costs in full, either through direct payment or through a third party financial plan. All financial arrangements must be made before the beginning of classes. The school will contact students who are delinquent in paying tuition and fees. They will then be counseled and encouraged to make specific arrangements with the college in order to remove their delinquency and remain in good financial standing.

DEGREE PROGRAM DESCRIPTIONS

MASTER OF BUSINESS ADMINISTRATION (MBA)

The objective of the master's degree programs is to provide advanced training to those who wish to practice their profession with increased competence in the global business industries. The program emphasizes both mastery of subject matter and an understanding of related research and research methodology. This emphasis implies development of the student's ability to integrate and apply the subject matter.

Program Objectives:

- Students will demonstrate an understanding of business knowledge (principles, concepts, theories, perspectives) and skills (procedures, methods, strategies, approaches) for each business function/discipline, and of the interrelationships among business functions/disciplines.

- Students will demonstrate the capacity to assess business environments and opportunities, and to align business activities in developing and implementing organizational strategy and change in complex and uncertain conditions.

- Students will demonstrate the capacity to identify problems, define objectives, gather and analyze information, evaluate risks and alternatives, make decisions that are ethical and responsible, and to communicate clear, defensible ideas and plans.

- Students will demonstrate the capacity to acquire and manage organizations' financial capital, human capital, assets, information, and technology.

- Students will demonstrate the capacity to work effectively and communicate with others as a colleague and as a manager.

- Students will demonstrate the capacity to collaborate and communicate effectively with others.

- Students will demonstrate the capacity to manage, influence, and lead others, and facilitate their development.

- Students will demonstrate the capacity to perceive commonalities and differences in others' values, styles, and perspectives, and how culture affects those commonalities and differences.

- Students will demonstrate the capacity for continual self-managed learning for professional and career development.

A minimum of 36 semester units of graduate study are required for the MBA program. The MBA curriculum includes coursework in the following categories: Foundation Requirements, Core Requirements, Electives, and a Capstone Course. A number of concentration areas are shown in the section of Core Requirements; each is listed with a cluster of courses. Students that take courses in a concentration area will gain a solid knowledge and skills in a business professional field.

The student must meet prerequisite requirements when taking any course. Upon clearing background preparation work, students start to take courses to meet the degree requirements, beginning with the Foundation Requirements courses.

I. Foundation Requirements (12 units)

The following required courses provide a knowledge base of interdisciplinary business theories and techniques for the students who would like to pursue a career in business management.

- MB500 Financial Management
- MB510 Human Resource Management
- MB520 Logistics and Operations Management

- MB530 Statistics for Business Decision (data analysis method)

II. Core Requirements (12 units)

Beyond Foundation Requirements, the students are required to take at least 12 units of core business administration coursework. There are three concentration areas:

Management:

- MB550 Project Management
- MB552 Management Information System
- MB554 Leadership
- MB556 International Business Management

Marketing:

- MB560 Marketing Management
- MB562 Global Marketing
- MB564 New Product Development
- MB566 Strategic Management

Human Resources:

- MB570 Human resources Law
- MB572 Organizational behavior
- MB574 International and Comparative Labor
- MB576 Managerial Communication Skills

III. Electives (9 units)

The students may elect any graduate-level courses to meet the electives requirement but only 6 units of the nine units can be courses in other concentration areas, or courses from Engineering School. The following is additional options for the elective courses:

Curricular Practicum: When applicable, the student may take curricular practicum courses and engage in practical training to work on company projects that are directly related to the student's course of study. The student must observe the rules required for taking the practicum courses. No more than 6 units of practicum coursework may be counted towards graduation. Part-time CPT is 1 unit, together with concurrent 9 course units, and full time CPT is 2 units, together with 6 concurrent

course units. Each 1 unit of a practicum course requires at least 45 hours of practical experience related to the student's program curriculum

IV. Capstone Course (3 units) (A required subject)

Upon completing all or most coursework for this program, the students are required to take the capstone course and, under the guidance of the course instructor, integrate the knowledge and skills learned from all of the courses taken during the program.

MB599 Business Administration Capstone Course

Graduation Requirements

The Master of Business Administration degree program requires a minimum of 36 units of graduate-level courses. The MBA degree program requires coursework in the following categories:

1. Foundation Requirements,
2. Core Requirements,
3. Electives, and
4. A Capstone Course.

The following are required for graduation:

- A graduate student admitted with under-graduate deficiencies must clear the deficiencies in the early terms. The student may clear a subject by either taking the course and earning a passing grade or passing a proficiency exam on the subject,
- Maintain a grade of C- or better for all courses taken to clear deficiencies or towards the degree requirements,
- Maintain an overall G.P.A. of 3.0 or better,
- Maintain good standing with the University – with clear financial, library, and other school records,
- The student is approved to graduate after filing a petition for graduation.

NOTICE TO PROSPECTIVE DEGREE PROGRAM STUDENTS

This university is provisionally approved by the Bureau for Private Postsecondary Education to offer degree programs. To continue to offer this degree program, this institution must meet the following requirements:

- Become institutionally accredited by an accrediting agency recognized by the United States Department of Education, with the scope of the accreditation covering at least one degree program.
- Achieve accreditation candidacy or pre-accreditation, as defined in regulations, by (date two years from date of provisional approval), and full accreditation by (date five years from date of provisional approval).

If this institution stops pursuing accreditation, it must:

- Stop all enrollment in its degree programs, and
- Provide a teach-out to finish the educational program or provide a refund.

An institution that fails to comply with accreditation requirements by the required dates shall have its approval to offer degree programs automatically suspended.

MASTER OF SCIENCE IN COMPUTER SICENCE AND ENGINEERING (MSCSE)

The MSCSE program is designed for students who intend to become professional engineers in the high-technology electronics or computer industry, as well as for those who desire a modern, general education based on the problems and the promises of a technological society. USTSV offers a friendly atmosphere and a variety of academic programs that have made USTSV engineering graduates highly valued in high-tech firms in the Silicon Valley.

All USTSV engineering faculty members possess the following qualities: advanced degrees earned in engineering and science disciplines, high-tech work experience, and enthusiasm in teaching and helping the students. Engineering requires industrial practical experience. All faculty members have strong academic background and rich industrial experience. They understand the needs of the industry, and will help the students to learn the most-needed knowledge for the Silicon Valley, and helped them to land a job after graduated.

Program Objectives:

- To provide each student the best education by tailoring each student's study plan based on the student's background and interests.
- To provide in-depth professional training with state-of-the-art learning resources to the student.

- To provide relevant laboratory experience throughout each program as an integral part of the education.
- To nurture a learning environment which leads to professional values recognizing high quality and integrity in a true engineer.
- To provide graduate students an opportunity to pursue advanced training and professional development to practice their profession with increased competence.

A minimum of 36 semester units of graduate study are required for the MSCSE program. They include a few required foundation courses, a number of engineering courses based on the student's selection of technical pursuit, and a required capstone course, and electives. The computer systems engineering coursework will develop technical skills beneficial to the student for career planning. The student also has the opportunity to take elective courses outside of computer systems engineering to broaden the student's skillset. The student must meet prerequisite requirements when taking any course. Upon clearing background preparation work, the student starts to take courses to meet the degree requirements. The student must begin his/her graduate study with the subjects listed in the Foundation Requirements section.

Foundation Requirements (9 units)

(Required subjects)

CSE500 Software Design and Implementations

CSE510 Fundamentals of Embedded Design

CSE520 Advanced Operating System

Computer Systems Engineering Concentration Core Course Requirements (12 units)

Before taking the Capstone Course near the end of the program, the student will take a minimum of 12 units of graduate level Concentration Core courses and 12 units of elective courses. Choices of field of concentration include the following: Embedded Engineering, Internet Technology, and Network Engineering.

For Embedded Engineering, the following are the required courses

CSE540 Advanced Data Structure and Algorithms

CSE542 Embedded Software Design in Linux

CSE544 Mobile Programming

CSE546 Device Driver for Embedded Devices

For Internet Technology, the following are the required courses

CSE 550 Advanced Java Programming for Internet Application

CSE 552 Interactive Web Design

CSE 554 Internet and Network Security

CSE 556 Database Design for cloud-based application

For Network Engineering, the following are the required courses

CSE 560 Wireless Networks and Architecture

CSE 562 Advanced Computer Networks

CSE 564 Network Analysis and Testing

CSE 566 Linux/Unix Network programming

Electives (12 units)

The student may take any graduate-level courses, including those outside of computer engineering, but only 6 units can be courses in other concentration areas, to meet the electives requirement of 12 units. When applicable, the student may take Curricular Practicum courses and engage in practical training to work on company projects that are directly related to the student's course of study. No more than 6 units of practicum coursework may be counted towards graduation.

Capstone Course CSE 599 (3 units)

(A required subject)

Upon completing all or most coursework for this program, the student is required to take the capstone course and, under the guidance of the course instructor, integrate the knowledge and skills learned from all of the courses taken during the program.

Graduation Requirements

The Master of science in Computational Science and Engineering degree program requires a minimum of 36 units of graduate-level courses. The MBA degree program requires coursework in the following categories:

5. Foundation Requirements,
6. Core Requirements,
7. Electives, and

8. A Capstone Course.

The following are required for graduation:

- A graduate student admitted with under-graduate deficiencies must clear the deficiencies in the early terms. The student may clear a subject by either taking the course and earning a passing grade or passing a proficiency exam on the subject,
- Maintain a grade of C- or better for all courses taken to clear deficiencies or towards the degree requirements,
- Maintain an overall G.P.A. of 3.0 or better,
- Maintain good standing with the University – with clear financial, library, and other school records,
- The student is approved to graduate after filing a petition for graduation.

COURSE DESCRIPTIONS

THE MBA PROGRAM

MB500 Financial Management

This course is designed to introduce modern financial theories, tools, and methods used for the analysis of financial problems, give students a thorough understanding of the essential concepts that need to develop and implement effective financial strategies. The course begins with a presentation of corporate finance fundamentals before progressing to discussions of specific techniques used to maximize the value of a firm. The course also explores the recent financial and economic crises and the role of finance in the business world. The course also includes the access to the same Thomson Reuters Financial database that business professionals use every day. It is packed with additional learning solutions to help the students to become the professionals in Finance.

Prerequisite: None

MB510 Human Resource Management

This course is designed for students to learn the concept of HRM, history and current examples to develop advanced HRM skills. It is the most comprehensive way to learn the full spectrum of HRM. The class provides six types of high-quality applications that use concepts to develop students' critical-thinking skills. Including Human resource management strategic planning and the legal issues, Strategy driven human resource management, the legal environment and diversity management, staffing, developing and managing talent. Four types of skill-building exercises develop HR management skills that can be utilized right away. The real cases studies demonstrate HRM practice in the current business world.

Students learn to apply the concept through critical thinking and to develop HRM skills they can use in their personal and professional lives.

Prerequisite: now basic business HR functions.

MB520 Logistics and Operations Management

This course is designed to prepare students with the ability in logistics and operations management. Topics include how managers plan and control operations to achieve optimum productivity, top quality, and customer satisfaction, qualitative and quantitative methods of managing production and operations, methods of total quality management (TQM) and continuous improvement in the service industries and in production operations. Students will also learn to plan for and operate under changing technologies in international operations and in integrated operations. The instructor may demonstrate SAP R/3 operations module. This course also provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing, customer services and future trends.

Prerequisite(s): None

MB530 Statistics for Business Decision (data analysis method)

This course is teaching students about the data analytics in the business world. Students will learn the method to gather, clean, analysis and model data to provide insights. Students also learn the latest technology, tools and how to best utilize the tool to efficiently process and present data, get the insight from the data and enable business to make the right decision quickly. It provides realistic examples, problem sets and cases for students to internalize the strategy to overcome the real world challenges and equipped with methodology and tools to quickly solve real world problems.

Prerequisite: Real working experience, some basic business computer skills such as using spreadsheets

MB550 Project Management

This course learns the Agile Project Management (APM) four focal points: opportunities created by the agile revolution and its impact on product development, the values and principle that drive agile project management, the specific practices that embody and amplify those principles, and practices to help entire organizations. Today, the pace of project management moves faster. Project management needs to become more flexible and far more responsive to customers. Using Agile Project Management (APM), project managers can achieve all these goals without compromising value, quality, or business discipline. This class integrates the best project management, product management, and software development practices into an overall framework designed to support unprecedented speed and mobility. Special topics are include incorporating agile values, scaling agile projects, release planning, portfolio governance, and enhancing organizational agility.

Prerequisite: MB 510

MB552 Management Information System

This course offers graduate students an in-depth understanding and hands-on experience in modern MIS design and implementation. Topics include evolution of MIS, computer and MIS, logical foundation of MIS, future of MIS. It provides comprehensive introduction about database, knowledge management system, monitoring system, configuration management and asset management. It teaches students about data driven decision making system which provides data insights and enable quicker and more accurate decision making process. It will also introduce what the artificial intelligence can improve business efficiency. This class enables students to design, use and manage the modern MIS system.

Prerequisite: Working experience, basic computer concept, business software tools

MB554 Leadership

This course teaches the students the awareness of their own strengths and opportunities for improvement while gaining an understanding of the qualities essential to being an extraordinary leader. By the end of the course, the students will have: Increased the understanding of what distinguishes between more and less successful leaders and construct a plan for their own development as a leader; sharpened their ability to diagnose situations and determine how then can add value; gain experience and confidence in leadership situations, such as dealing with difficult people and inspiring others to accomplish shared team and organizational goals; and developed the ability to accept and leverage feedback and offer useful feedback to others.

Prerequisite(s) MB 510 or consent from the instructor

MB556 International Business Management

This course reviews the classic five functions of management: planning, organizing, staffing, leading, and controlling. Students will compare managerial practices of Europe, Asia, and Latin America. The class also covers 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. In today's rapidly changing scenario of the world, the study of international business management has become necessary for management students. This course mainly focuses on managerial implications, which caters to the needs of management students. The course presents a thorough review of economies and politics of international trade and investment and various functions and forms of Global monetary system.

Prerequisite MB500 or the consent from Instructor

MB560 Marketing Management

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. Students will have a chance to explore the cutting-edge marketing management that reflects the latest in marketing theory and practice.

Prerequisite(s) MB 530

MB562 Global Marketing

This course prepares students to enter the challenging world of Global Marketing. It covers the various problems and opportunities of culture in global marketing and advertising. It argues that the main dispute in global marketing and advertising should not be about the efficiency of standardization but about the effectiveness of culture segmentation. Knowledge of cultural specifics or the value paradoxes is the basis of effective marketing communication strategies. The class introduces the value paradox and other paradoxes in globalization and global marketing theory, the global-local dilemma, myths of global marketing, branding, values and culture, classifications of culture, communication advertising appeals, and advertising forms and how they are culture-related. The class provides updated information and findings from recent studies, in addition to new topics like global public relations, the media, and the internet and mobile phones, as well as more on consumer behavior. It includes three new dimensional models, including why the Hofstede model is the most useful one. It provides the result from researching and applying cultural values, value structure map, public relations, product and packaging design and retail. It provides a summary of market entry strategies and the marketing mix; and includes information on culture's influence on traditional media. It explains the human communication across cultures and how different age-old philosophies of each world region are the basis of human communication.

Prerequisite: MB560

MB564 New Product Development

This course provides the complete understanding of the new product development process. The class teaches students a three-phase planning framework. Phase 1 addresses front-end planning topics of business objectives, market opportunity assessment, concept development, and the business plan development. Phase 2 focuses on the new product development program management, the internal organizational issues of financial justification, organizational dynamics and communications, development program execution, and manufacturing. The final phase describes the business program management, including product portfolio, pricing and market share, growth strategies, product maintenance, production-based quality management, product liability, and product life-cycle management. It focuses the commercialization process including pre-launch preparations, the actual product launch, and product management. At the end of the class, it provides a checklist for the entire process for students to easily apply to the real world. This class gives students the concept, tools and real examples for them to learn, internalized and apply to their real jobs.

Prerequisite: MB500

MB566 Strategic Management

This course teaches the students about strategic management. The courses will cover the latest cutting-edge research and strategic management trends with ideas from some of today's most prominent scholars. This course integrates the classic industrial organization model with a resource-based view of the firm to give the students a complete understanding of how today's businesses use strategic management to establish a sustained competitive advantage. The class has global focus and use examples from more than 600 emerging and leading companies to explain the ideas of strategic management. The course will teach the students how to to effectively apply strategic management tools and techniques for increased performance and tomorrow's competitive advantage.

Prerequisite: MB 520

MB570 Business and Human Resources Law

This course provides an overview of U.S. employment law at both the federal and state level. It reviews employment at will and wrongful discharge, employment torts, privacy, discrimination law, worker's compensation, occupational safety and health, unemployment, federal compensation laws, and the law of noncompetition and trade secrets. It is designed for individuals preparing for careers in human resource management, labor relations, or dispute resolution.

Prerequisite: MB 510

MB572 Organization behavior

This course explores the complex dimension of organizational behavior including examination of experiential and conceptual approaches to communication, self-awareness, perception, motivation, problem solving and culture. Students apply interpersonal and intrapersonal exploration to the management of change, leadership theories and organizational issues. Real case projects are required.

Prerequisite: MB 510

MB574 International and Comparative Labor

This course is designed to teach international employment law, comparative labor law, employment practice, international labor standards, labor organizations, international labor treaties. It provides a solid conceptual framework compares national laws dealing with individual collective employment rights, including antidiscrimination law and privacy law, and considers the systems used to resolve labor and employment disputes in the context of international labor law. it also covers international labor law considers the International Labor Organization, NAFTA and other bilateral trade agreements that include labor standards, and the European Union. In addition, it explores transnational corporations' self-regulatory efforts (or codes of conduct,) and the mechanisms for pursuing international labor standards in United States courts. Comparisons are drawn among the laws of the United States, Canada, Mexico, the United Kingdom, Germany, France, China, Japan and India. Exploring the similarities and the

differences among various approaches to the employment relationship allows students to better understand and evaluate the approach each country takes, and helps them develop a normative approach to labor and employment law. National legal materials are presented within historical and cultural context.

This class will provide the solid foundation for students to work at a global company, hiring and growing the right talent and building global talent pool. Students can help their employers improve company's global competence and competitiveness.

Prerequisite: MB510

MB576 Managerial Communication Skills

Communicating clearly is a critical skill for successful managers! The ability to communicate clearly is the critical core competency for successful managers at all levels and in all industries. This class will provide you the guide to business communication that delivers the message whether written, or spoken, in person or via e-mail with respect for the receiver, and in all business situations. This class will cover all facets of business communication offers numerous opportunities to practice and apply your new skills and a log to track your improvement.

Prerequisite: MB550

MB599 Master of Business Management Capstone)

This course is designed for students to gain the practical experience on integrating the knowledge learned from the program including the foundation courses, core courses, and elective courses, and deliver a final project under the guidance of the course instructor. The final delivery project will vary depending on the need of the industry, and the students' background. The scope of the course is determined by the instructor.

Prerequisite: Prerequisite: completed all the foundation and core courses

THE MSCSE PROGRAM

CSE500 Software Design and Implementation

This course is designed for students to use the engineering approach to develop practical, high-quality software projects. Topics include software life cycle, development process, requirement specification, design and testing techniques, verification and validation. Students will have a chance to review the basic coding skills, including C, C++, and Java, and learn to use project management tools, principle, and environment to facilitate the development of software. Topics include the basic elements of

software design and construction, providing a solid understanding of control flow, abstract data types (ADTs), memory, type relationships, and dynamic behavior. This course also evaluates the benefits and overhead of object-oriented design (OOD) and analyzes software design options.

Prerequisite: none

CSE510 Fundamentals of Embedded Design

This is the fundamental of embedded systems engineering designed for students who are interested in learning real-time embedded systems and practicing real-time programming of embedded systems. Topics include hardware issues including platform, microprocessors commonly used in these systems and how a microprocessor works in such systems, concept of memory, registers, I/O; interrupt generation and handling in an embedded system; the concept of real-time programming, multi-task, concurrency, mutual exclusion; overview of real-time kernel/OS, drivers; system initialization and startup, and debug issues. Hands-on exercises are required.

Prerequisite: none

CSE520 Advanced Operating System (3 units)

This course offers graduate students an in-depth understanding and hands-on experience in modern understanding and hands-on experience in modern operating system design and implementation. Topics include progress, memory, file system, I/O, deadlocks, operating system implementations, modern distributed and network system architectures, communication and synchronization in distributed systems, thread and process scheduling. Projects are required.

Prerequisite: none

CSE540 Advanced Data Structure and Algorithms

This course is designed to teach efficient use of data structures and how to design an algorithm to solve a practical problem. Students will learn the logical relations between data structures associated the real problem and its physical representation. Topics include algorithms and algorithm efficiency analysis, data organization and the applications. Practical use of the arrays, stacks, queues, single and double liked lists, trees, graphs, and heaps will be covered in depth. The class based data models with OOB design concept will also be introduced.

Prerequisite: CSE500

CSE542 Embedded Software Design in Linux (3 units)

This course prepares students to enter the challenging world of embedded Linux. It covers the following key topics: comparing Linux and traditional embedded environments, comparing leading embedded Linux processors, understanding the details of the Linux kernel initialization process, learning the basic

concepts about Linux drivers, learning about the special role of bootloaders in embedded Linux systems - with specific emphasis on U-Boot, using embedded Linux file systems, understanding the Memory Technology Devices subsystem for flash (and other) memory devices, mastering debugging tools such as gdb, KGDB, learning many tips and techniques for debugging within the Linux kernel, learning how to maximize productivity in cross-development environments, learning to prepare an entire development environment, including TFTP, DHCP, and NFS target servers; and learning to configure, build, and initialize BusyBox to support a set of unique requirements. Hands-on exercises are required.

Prerequisite: CSE500

CSE544 Mobile Programming (3 units)

This course teaches how to create effective native apps across platforms and Web apps for today's most popular smartphone platforms with Duffy's PROGRAMMING MOBILE APPLICATIONS: ANDROID™, iOS, AND WINDOWS PHONE 7. This unique, hands-on tutorial approach combines clear presentations with numerous screenshots and step-by-step instructions to guide students in developing applications for Google™ Android™, Apple iOS, and Windows Phone 7. Students learn to create identical native and Web apps for each platform, which allows comparing each platform's development processes. The course includes from platform architecture to native app life cycle management with an emphasis on fundamental programming concepts. This course's unique coverage of multiple platforms not only demonstrates the portability of apps, but also ensures a solid understanding of programming principles that benefits students throughout their career.

Prerequisite: CSE500

CSE546 Device Driver Design

This course investigates the operating system (Linux, or UNIX) components that interact with device drivers, the device driver building and debugging process, device driver architecture, functionality and the relevant kernel APIs. Topics include: operating system architecture; I/O API; operating system kernel; building, loading and debugging device drivers; device driver entry points; device driver data structures; I/O request processing; plug, play and power management; interrupts and timers; memory management; direct memory access; and timing. The goal of the course is to present comprehensive coverage of the operating system kernel, HAL, device drivers and the related APIs. Upon completion of the course, the student should be able to develop, build, install and test basic device drivers, as well as to port existing drivers from one operating system to another. Hands-on practice is required.

Prerequisite: CSE500

CSE 550 Advanced Java Programming for Internet Application (3 units)

This courses learns the all basics and advanced features of Java programming. It starts with the basics and Leads to Advance features of Java in detail. This course covers covered and explained several topics of latest Java 8 Features in detail. Topics includes– Lambdas. Java 8 Functional interface, Stream

and Time API in Java 8. This courses teach the students how to develop, and debug and Java Internet application. The course starts with keywords, syntax, and constructs that form the core of the Java language and then it leads the students to advanced features of java, including multithreaded programming and Applets. Students get a chance to review the fundamentals and learn the advanced topics. The previous programming experience in C/C++ is required for this course.

Prerequisite: CSE 510

CSE 552 Interactive Web Design

This course covers the fundamental concepts of the 3-tier model, Internet database access, and major tools and techniques utilized in application development. Topics include REST, N-tier model, JDBC with database applications, Java Servlet, JSP and JavaBean, WML, and XML. In addition, the students will learn the best practice development approach using Sprint Framework to achieve MVC model as well as Hibernate on how to map business domain object model to underline relational database. At the end of this course, the students shall have a fresh view on both the fundamental and advanced skills to implement large scale enterprise systems. Hands-on exercises are an integral part of the course.

Prerequisite: CSE510

CSE 554 Internet and Network Security

The course addresses security risks in computer networks and computer systems and the fundamental techniques used to reduce these risks. It also gives an introduction to the role of security as an enabling technology for electronic commerce. The course is divided into four major parts: (1) Fundamentals of Network Security and System Security, (2) Fundamentals of Cryptography: This is probably the most important part of this course. This part involves basic reasoning and understanding of cryptography. This includes the fundamentals of symmetric and asymmetric key systems, message integrity (hashing functions), digital signature, digital certificate, key management, and familiarity with common standards for these techniques; (3) Cryptography in real world applications: Several security applications will be discussed, including PGP, SSL, IPsec, with SSL be the focus- major components of SSL protocol and its role in electronic commerce. Students will learn how to set up an https web server, and how to apply and integrate digital certificate with browsers, web servers, and communication protocols on the Web; (4) Hands-on Cryptography: This part is for those who are interested in implementing security software using cryptography.

Prerequisite: CS510

CSE 556 Database Design for cloud-based application

This course provides an in-depth understanding of the Database Management System. Emphasis is on the latest 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. This course specifically details procedural extensions to SQL to develop stored procedures, functions, packages and database triggers. In addition, it covers database performance tuning from an application development point of view by exploring query optimizer, database hints, and various database access methods. Cloud Database Development and Management explains how student can take advantage of the cloud environment to develop their own fully functioning database systems.

Prerequisite: CS510

CSE 560 Wireless Networks and Architecture

This course covers the development of improved wireless networks for the future. The Future of Wireless Networks: Architectures, Protocols, and Services. This course discusses the emerging network architectures, underlying protocols, services, and applications. The topics includes the new wireless network architectures that are being developed, such as mobile SDN, wireless local area networks (i.e., 802.11), and wireless sensor networks for the Smart Grid. The course also discusses the new protocols and enabling technologies for the different wireless network architectures. These include wireless MAC protocols, resource allocation in cognitive radio networks, multicast transmission, and femtocells, which provide enhanced indoor coverage and increased network capacity. In the end, the courses discusses several new services and applications that are springing up, such as multisource selection for wireless peer-to-peer (P2P) networks and device-to-device (D2D) content sharing, which reduces duplicated downloads of the same contents on cellular links by offloading the traffic onto other networks. It also covers the next generation of wireless security and privacy control techniques that service providers can use to ensure that their infrastructures and services are adequately protected against all kinds of threats.

Prerequisite: CSE520

CSE 562 Advanced Computer Networks

This course covers the physical layer of networking, computer hardware and transmission systems, then works the way up to network applications. The topics includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media. This course is designed to have a deep understanding of computer networks. The course review some basic network basic concepts, including the OSI model, and TCP/IP. Computer network is moving to IPv6. IPv6 has improved many aspects over IPv4. This course will cover the difference and the improvement from IPv4 to IPv6, together with the hands-on practice to enhance the understanding of the computer networks.

Prerequisite: CSE520

CSE 564 Network Analysis and testing

This course covers computer network analysis, testing techniques, and experience-based strategies to isolate and solve network problems. Topics include wiring and cable testing issues, transmission encoding techniques, dissecting the IEEE 48-bit MAC address, the impact of different types of broadcast traffic, operational details and analysis considerations for switches, Ethernet and Token Ring operational details and analysis, the IEEE 802.2 LLC protocol, datagrams and routing, IP specifics, protocol analysis and troubleshooting, baselining throughput and latency. Hands-on exercises using protocol analyzer are required to reinforce the topics.

Prerequisite: CSE520

CSE 566 Linux/Unix Network programming

This course is designed for students to gain fundamental knowledge of and hands-on experience with UNIX/Linux network programming. Students will learn to program in C with UNIX/Linux system calls and students will learn Internet addressing in both IPv4 and IPv6 networks. Then, the students will learn TCP/IP's structure and function from the bottom up: from link layer protocols, such as Ethernet and Wi-Fi, to network, transport, and application layers. ARP, DHCP, NAT, firewalls, ICMPv4/ICMPv6, broadcasting, multicasting, UDP, DNS, and much more will be covered in the course. TCP, including connection management, timeout, retransmission, interactive data flow, and congestion control are covered in details. The basics of security and cryptography, and the modern protocols for protecting security and privacy, including EAP, IPsec, TLS, DNSSEC, and DKIM are also covered. Students are required to do projects with a substantial amount of programming. Upon completion of this course, students should be able to develop real-world UNIX/Linux network applications, including Sockets, XTI, and RPC.

Prerequisite: CSE520

CSE 599 Computer Systems Engineering Capstone

This course is designed for students to gain the hands-on experience on integrating the knowledge learned from the program including the foundation courses, core courses, and elective courses, and deliver a final project under the guidance of the course instructor. The final delivery project will vary depending on the trend of computer industry, and the students' background. The scope of the course is determined by the instructor.

Prerequisite: completed all the foundation and the core courses

NON-DEGREE PROGRAM DESCRIPTIONS

JS DEVELOPMENT CERTIFICATE PROGRAM (JSDC)

The objective of the JavaScript (JS) Development Certificate Program is to provide advanced training of the latest JS development technologies, frameworks, tools and methodologies for those who wish to practice their profession with increased competence in the emerging field of JS-based web application development, which has grown very popular in the last five years. The JSDC program emphasizes both

mastery of the latest JS development technologies, frameworks, tools and methodologies and their practical application in real world situations in Silicon Valley. This emphasis implies development of the student's ability to integrate and apply the JS development skills.

Program Objectives:

- Students will demonstrate an understanding of the latest JS development technologies, frameworks, tools and methodologies.
- Students will demonstrate practical skills in developing modern web applications with the latest JS development technologies, frameworks, tools and methodologies.
- Students will demonstrate the capacity to master and continuously learn and improve the latest JS development technologies, frameworks, tools and methodologies that they learned in JSDC.
- Students will demonstrate the capacity to identify problems, define objectives, gather and analyze information, evaluate risks and alternatives, make decisions that are ethical and responsible, and to communicate clear, defensible ideas and plans in modern web application development.
- Students will demonstrate the capacity to work effectively and communicate with others as a team member in today's high tech companies in Silicon Valley and around the world.
- Students will demonstrate the capacity to collaborate and communicate effectively with others team members.
- Students will demonstrate the capacity to manage, influence, and lead others, and facilitate their development.

A completion certificate will be issued upon the successful participation and completion of JSDC. The certificate program is 'code camp' like and typically takes nine weeks while the first six weeks are devoted to skill learning and the last three weeks for practicing learned skills via individual or group projects.

The student must meet prerequisite requirements when taking JSDC. Upon clearing background preparation work, students start to take the certificate program to meet the certification requirements.

I. Prerequisite Requirements

The student must meet following prerequisite requirements before joining JSDC.

- Basic Computer Science Knowledge and Skills

- Preferably CS, EE or other IT related Master or Bachelor Degree
- Knowledge of Web/Internet, HTML and CSS

II. Program Curriculum

- Skills Learning
  - JavaScript
  - AngularJS or ReactJS
  - NodeJS
  - ExpressJS
  - Database Overview
  - REST API
  - Web Application Architecture
- Project Development
  - User Management Application
  - Employee Management Application
  - Website Development
  - Real Time Chat Application
  - Online Calendar Management Application
  - Online Album Management Application

Certificate Requirements

The JS Development Certificate Program requires the participation of all its lectures and project development sessions. It also requires the successful completion of all its homework, quiz, tests and development projects. A completion certificate will be issued upon the successful participation and completion of JSDC.

HACKER ACADEMY (HACK)

The objective of the Hacker Academy Certificate Program is to provide advanced training of the latest internet, software and hardware technologies, frameworks, tools and methodologies for those who wish to practice their profession with increased competence in the emerging field of computer software and hardware industries. All these technologies were created within last ten years and have grown very popular in the last five years. The Hacker Academy emphasizes both mastery of the latest development technologies, frameworks, tools and methodologies and their practical application in real world situations in Silicon Valley. This emphasis implies development of the student's ability to integrate and apply the newly learned development skills.

Program Objectives

- Students will demonstrate an understanding of the chosen Internet, Software, or Hardware technologies, frameworks, tools and methodologies.
- Students will demonstrate practical skills in developing modern intelligent web applications with the chosen Internet, Software or Hardware technologies, frameworks, tools and methodologies.
- Students will demonstrate the capacity to master and continuously learn and improve the chosen Internet, Software or Hardware technologies, frameworks, tools and methodologies that they learned in the Hacker Academy.
- Students will demonstrate the capacity to identify problems, define objectives, gather and analyze information, evaluate risks and alternatives, make decisions that are ethical and responsible, and to communicate clear, defensible ideas and plans in modern web intelligent application development.
- Students will demonstrate the capacity to work effectively and communicate with others as a team member in today's high tech companies in Silicon Valley and around the world.
- Students will demonstrate the capacity to collaborate and communicate effectively with others team members.
- Students will demonstrate the capacity to manage, influence, and lead others, and facilitate their development.

Prerequisite Requirements

Applicants must meet following prerequisite requirements before joining the Hacker Academy:

- At least, Bachelor of Arts or Bachelor of Science in any major from an accredited university (domestic or international)
- Basic Computer Science Knowledge and Skills
- Preferably CS, EE or other IT related Master or Bachelor Degree
- Knowledge of Web/Internet, HTML and CSS

Program Curriculum

A completion certificate will be issued upon the successful participation and completion of **at least one of the technology training courses** in the Hacker Academy. The certificate program is 'code camp' like and typically takes four to fifteen weeks while the first weeks are devoted to skill learning and the last weeks for practicing learned skills via individual or group projects.

- Skills Learning, depending on the chosen technology training course:
    1. Advanced Computer Algorithm
    2. Full-Stack Software Development with JavaScript
    3. Data Science and Analytics
    4. Artificial Intelligence and Machine Learning
    5. Cloud Computing
    6. Blockchain Technology and its Future Applications
    7. Quality Assurance and Engineering
    8. Server-Side Development with Java and Open-Source Tools
    9. VSLI Design
- Project Development
    - User Management Application
    - Employee Management Application
    - Website Development
    - Real Time Chat Application
    - Online Calendar Management Application
    - Online Album Management Application
    - Others may be introduced later

The Hacker Academy currently offers following independent courses (which can be chosen by students individually):

1. HACK101: Advanced Computer Algorithm. Computer algorithm and critical problem-solving skill have become a critical part of job interview process at software companies in Silicon Valley. This course offers advanced computer algorithm that go beyond what's offered in a typical MSCS program and target algorithm skills during job interviews.
2. HACK102: Full-Stack Software Development with JavaScript. Full-stack software developer is one of the most popular software engineering jobs these days. This course teaches hands-on skills for full-stack software development, including JavaScript, React.js, Node.js, Express.js, and REST API.
3. HACK103: Data Science and Analytics. Many surveys have identified data science and analytics typically requires several critical technical skills such as Python, Database, Hadoop, Spark, and Tableau. This course is the place to learn these critical technical skills for a data science analyst.
4. HACK104: Artificial Intelligence (AI) and Machine Learning (ML). AI and ML is a much sought-after and highly-paid skill set these days. The need for AI and ML engineers is projected to grow tremendously in the next decade and possibly beyond. This course covers the essential concepts and algorithms in AI and ML, including linear and logistic regressions, decisions trees, support vector machine, Bayesian inference, clustering, deep neural network. It also covers assessment, comparison, and ensembling of learning algorithms.
5. HACK105: Cloud Computing. In this course, we explain the essentials of cloud computing, starting with an answer to the basic question: what is the cloud? We explore the benefits and drawbacks of cloud computing, including a candid look at balancing the sharing and privacy issues with the productivity gains of working in the cloud. We also teach popular services, including Amazon and Google.

6. HACK106: Blockchain Technology and its Future Applications. This course covers the concepts on Blockchain and its applications. Students will get a detailed picture of the components and structures of blockchain business networks, such as ledgers, smart contracts, consensus, certificate authorities, security, roles, transaction processes, participants, and fabrics.
7. HACK107: Quality Assurance and Engineering. This course is focused on helping today's QA Engineers learn the foundational concepts and hands-on skills of Quality Engineering, Java programming language and Selenium required to write automated tests and execute them in today's highly competitive job markets.
8. HACK108: Server-Side Development with Java and Open Source Tools. This course is focused on the development of modern server software that forms the backbone of any software applications. In particular, this course teaches students server-side development with popular Java programming language and related open source tools such as Spring, Spring MVC, JDBC, Hibernate, MongoDB, GIT, Junit, MicroService, REST API and others;
9. HACK109: VLSI Design. This course is tailored to meet the needs of today's hardware engineers in Silicon Valley where the hardware manufacturing process is without boundaries. It provides the in-depth and interdisciplinary skills required to understand and develop new technologies and trends in electrical engineering; and to advance into professional leadership and shape the future of this dynamic field.

Certificate Requirements

The Hacker Academy Certificate Program requires the participation of **at least one selected course** to get the certificate. At the same time, it requires the successful completion of all its homework, quiz, tests and development projects in that course. A completion certificate will be issued upon the successful participation and completion of the Hacker Academy.

Course Descriptions

HACK 101 ADVANCED COMPUTER ALGORITHM

This course is designed to teach efficient use of data structures and how to design an algorithm to solve a practical problem. Students will learn the logical relations between data structures associated the real problem and its physical representation. Topics include algorithms and algorithm efficiency analysis, data organization and the applications. Practical use of the arrays, stacks, queues, single and double liked lists, trees, graphs, and heaps will be covered in depth. The class based data models with OOB design concept will also be introduced.

Prerequisite: none

HACK 10 2 FULL-STACK SOFTWARE DEVELOPMENT WITH JAVASCRIPT

The objective of this course is to provide advanced training of the latest JS development technologies, frameworks, tools and methodologies for those who wish to practice their profession with increased competence in the emerging field of JS-based web application development, which has grown very popular in the last five years. The JSDC program emphasizes both mastery of the latest JS development technologies, frameworks, tools and methodologies and their practical application in real world situations in Silicon Valley. This emphasis implies development of the student's ability to integrate and apply the JS development skills.

Prerequisite: none

HACK 103 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

This course provides training in the skills and knowledge required for a career as an ML engineer. It will cover the essential concepts and algorithms (supervised as well as unsupervised) in machine learning, including linear and logistic regressions, decision trees, support vector machines, clustering, neural networks, deep learning/Tensorflow as well as assessment, comparison, and ensembling of learning algorithms. Together with large scale hands-on coding projects for experimenting with various learning algorithms, this course will enable students to master not only the key ML concepts and algorithms but also industry best practices in applying machine learning to practical problems.

Prerequisite: none

HACK 104 DATA SCIENCE AND ANALYTICS

With the advance of data science and increased sophistication of data science applications, today's data science analysts are expected to perform more and more technical tasks. Their daily jobs demand deeper and deeper technical skills that were not required in traditional data analysts and not offered in school curriculums. Through our study of industry expectations of today's data science analysts, we have identified a few critical technical skills that are 1) mostly lacking from job applicants, 2) outside of typical data science technologies, and 3) not offered in most data science education curriculums.

Prerequisite: none

HACK 105 CLOUD COMPUTING

This course provides an introduction to the cloud computing concepts and terminologies. In this course, we explain the essentials of cloud computing, starting with an answer to the basic question: what is the cloud? We explore the benefits and drawbacks of cloud computing, including a candid look at balancing the sharing and privacy issues with the productivity gains of working in the cloud. We also teach popular services, including Amazon and Google. Plus, get tips to make a seamless move to the

cloud and evaluate and fine-tune the performance of the services. The uniqueness of this course is for it to deep-dive into critical and popular cloud computing technologies to allow students to master them in real-world jobs.

Prerequisite: none

HACK 106 BLOCKCHAIN TECHNOLOGY AND ITS FUTURE APPLICATIONS

This course covers the concepts on Blockchain fields. Students will get a detailed picture of the components and structures of blockchain business networks, such as ledgers, smart contracts, consensus, certificate authorities, security, roles, transaction processes, participants, and fabrics.

This course starts with the basics of cryptography and economics, then go on to establish a solid fundamental understanding of Bitcoin by building it from the bottom up, and explore the myriad of ideas and technologies relating to blockchain technology. From the business side, this course is started with the history of digital currency, and then looked at the laws, organizations, trends, and communities behind it to build a complete picture of the ecosystem surrounding blockchain technology. This course gives a comprehensive survey of relevant topics in cryptocurrency and the wider blockchain space.

Students will get experience with a blockchain to model, build, and test a business network and create an application that can query a ledger, first by using Hyperledger Composer, and second by working directly in chaincode with command-line tools. Finally, students will learn how to create a blockchain network, and the tasks and components that are required.

Prerequisite: none

HACK 107 QUALITY ASSURANCE AND ENGINEERING

This course s focused on helping today's QA Engineers learn the foundational concepts and hands-on skills of Quality Engineering, Java programming language and Selenium required to write automated tests and execute them in today's highly competitive job markets. It begins with an overview of Quality Engineering concepts and general Quality Assurance methodology and process. Then it focuses on core Java programming language and development. With the knowledge of Java, it discusses automated testing with Java and Selenium, which is the main focus of this certificate program. The program end with a few testing projects for real world applications. A student can expect to learn in-depth Java programming and Selenium-based test automation in the course.

Prerequisite: none

HACK 108 SERVER-SIDE DEVELOPMENT WITH JAVA AND OPEN SOURCE TOOLS

This course learns the all basics and advanced features of Java programming. It starts with the basics and Leads to Advance features of Java in detail. This course covers covered and explained several topics of latest Java 8 Features in detail. Topics includes– Lambdas, Java 8 Functional interface, Stream and Time API in Java 8. This courses teach the students how to develop, and debug and Java Internet application. The course starts with keywords, syntax, and constructs that form the core of the Java language and then it leads the students to advanced features of java, including multithreaded programming and Applets. Students get a chance to review the fundamentals and learn the advanced topics. Finally, this course learns various open-source server-side development tools such as Spring, Spring MVC, Spring Bolt, Hibernate that are commonly used in today's server-side development.

Prerequisite: none

HACK 109 VLSI DESIGN

This course covers basic theories and techniques of digital VLSI design in CMOS technology. In this course, we will study the fundamental concepts and structures of designing digital VLSI systems include CMOS devices and circuits, standard CMOS fabrication processes, CMOS design rules, static and dynamic logic structures, interconnect analysis, CMOS chip layout, simulation and testing, low power techniques, design tools and methodologies, VLSI architecture. This course is designed to give students an understanding of the different design steps required to carry out a complete digital VLSI design n silicon.

Prerequisite: none

NOTICE TO PROSPECTIVE NON-DEGREE PROGRAM STUDENTS

This university is provisionally approved by the Bureau for Private Postsecondary Education to offer this non-degree program.

ADMINISTRATION AND FACULTY

Executive Officers

Chief Executive Officer	Peiwei Mi	Ph.D. MSCS. BSEE
Chief Academic Officer	Peiwei Mi	Ph.D. MSCS. BSEE
Chief Operating Officer	Henry (Hang) Zhang	MSSE MSEE BSCS

VP of External Affairs	Hongyu Li	MSEE BSEE

Staff

Registrar	TBD
Director of Library Services	Julie Wang, BA
Director of Student Services	Mary Li, MSCS

Academic Policy Committee

Jingke Li, PhD

Glenn Seidman, PhD

Faculty

MASTER OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING (MSCSE)

1. Dr. Peiwei Mi
    - Co-Founder, Valiantica, Inc. San Jose, CA
    - Visiting Professor and Chair of Overseas Recruiting Committee, School of Software Engineering, University of Science and Technology of China, Hefei, China
    - Ph.D. in Computer Science, University of Southern California, Los Angeles, CA
    - BS in Electrical Engineering, University of Science and Technology of China, Hefei, China
2. Dr. Jingke Li
    - Associate Professor, Department of Computer Science, Portland State University
    - Ph.D. in Computer Science, Yale University
    - BS in Electrical Engineering, University of Science and Technology of China, Hefei, China
3. Dr. Glenn Seidman
    - Chief Architect, Arraynet, Inc. Redwood City, CA
    - Ph.D. in Computer Science, University of California, Los Angeles (UCLA)
    - BS in Computer Science, CalTech
4. Dr. Zong Ling
    - Senior Software Scientist, IBM Almaden Research Center, San Jose, CA
    - Visiting Professor, School of Software Engineering, University of Science and Technology of China, Hefei, China
    - Visiting Professor, School of Software Engineering, Nanjing University, Nanjing, China
    - Ph.D. in Electrical and Electronics Engineering, University of Hawaii at Manoa
    - BS in Electrical Engineering, University of Science and Technology of China, Hefei, China
5. Dr. Ke Bai

- Software Engineer, Google, Inc. Mountain View, CA
- Ph.D. in Computer Science, Arizona State University
- BS in Computer Science, University of Science and Technology of China, Hefei, China

6. Dr. Lingjun Li
   - Software Engineer, Google, Inc. Mountain View, CA
   - Ph.D. in Computer Science, Arizona State University
   - MS in Information Security, University of Science and Technology of China, Hefei, China
   - BS in Information Security, Hefei University of Technology, Hefei, China
7. Dr. Xi Fang
   - Staff Engineer and Engineering Tech Lead, Huami
   - Ph.D. in Computer Science, Arizona State University
   - MS in Communications and Information System, Beijing University of Posts and Telecommunications, Beijing, China
   - BE in Communications Engineering, Beijing University of Posts and Telecommunications, Beijing, China
8. Dr. Xinxin Zhao
   - Software Engineer, Google, Inc. Mountain View, CA
   - Ph.D. in Computer Science, Arizona State University
   - MS in Information Security, University of Science and Technology of China, Hefei, China
   - BS in Information Security, Xidian University, Xi'an, China
9. Wei Wu
   - Sri. Marketing Consultant, Chuwa America, San Jose, CA
   - MS in Computer Science, Michigan State University
   - MBA, Santa Clara University, Santa Clara, CA
   - MS in Electrical Engineering and BS in Computer Science, Tong-Ji University, Shanghai, China

MASTER OF BUSINESS ADMINISTRATION (MBA)

1. Jaya Rao
   - CEO, CTO, CSO, Founder of nPhase, Candor Business Solutions, Fox Technologies, Viewent, AriSight, Corio.
   - MBA, Arizona State University
   - BS in Mechanical Engineering, Osmania University, India.
2. Eugene Feng
   - MS in Engineering Management, Santa Clara University, Santa Clara, CA
   - BS in Electrical Engineering, Rutgers University, New Brunswick, NJ
3. Jiaping Pan

- Director of IT, Commerce Casino, Los Angeles, CA
- MBA, Pacific State University, Los Angeles, CA
- BS in Physics, Shanghai Polytech University, Shanghai, China

4. Dr. Lu Wang
    - Founder and CTO, Marvin Wear Inc.
    - Ph.D. in Physiology and Neurobiology, Rutgers University, New Jersey.
    - MS in Computer Science, Rutgers University, New Jersey.
    - BS in Theoretical Physics, Jilin University, China
5. Qin Yuan Fan
    - CFO and Controller, Ryzlink Corp, San Jose, CA
    - MBA in Accounting, Northwestern Polytechnic University, Fremont, CA
    - BBAIS, Northwestern Polytechnic University, Fremont, CA
6. Wei Wu
    - Sri. Marketing Consultant, Chuwa America, San Jose, CA
    - MS in Computer Science, Michigan State University
    - MBA, Santa Clara University, Santa Clara, CA
    - MS in Electrical Engineering and BS in Computer Science, Tong-Ji University, Shanghai, China

CALENDAR

The Administrative Office is closed for two weeks during the Christmas and New Year Holidays each year and also for all legal United States (US) Federal Government holidays.

HOLIDAYS

- New Year's Day
- Martin Luther King, Jr. Day
- President's Day
- Good Friday
- Memorial Day
- Independence Day
- Labor Day
- Veteran's Day
- Thanksgiving (Thursday and Friday)

- Christmas (2 week break)