

# WHITewater UNIVERSITY OF CALIFORNIA

## 2022 CATALOG

Volume 1 • Jan 01, 2022 - Dec 31, 2022



Whitewater University of California

# Catalog

Volume 1

Jan 01, 2022 - Dec 31, 2022

## Degree Programs

Master of Science in Computer Science  
Engineering

Master of Science in Traditional Chinese  
Medicine

## Certificate Programs

English as a Second language

TOEFL

Database Management

Java Programming

Web Application and

Development

TCM Herbology

Ying, Yang, & Nei Jing



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# ACADEMIC CALENDAR

## Spring 2022

Start January 3, 2022

End April 17, 2022

## Summer 2022

Start May 1, 2022

End August 13, 2022

## Fall 2022

Start August 28, 2022

End December 19, 2022

## Welcome to WHITEWATER University

### Letter from the President

Welcome to WHITEWATER University of California!

We are pleased to have you as a student. WHITEWATER University of California (WUC) is a career focused University committed to provide you with high quality and affordable education. We have learned that most busy and working adult students want flexibility, affordability, and support when they need it.

This catalog is your roadmap to the future. It's the official record of WUC's academic offerings. Read it carefully and it will answer most of your questions about courses, academic majors, and residential life and student activities. In addition, the helpful information provided here, I would also like to share a few tips our most successful students have used to maximize their experience:

1. Develop and practice good study habits. The Academic Strategies course provides you with helpful insights and tools, and I strongly encourage you to take full advantage of this course.
2. Take advantage of the student support services. Your instructors and advisors will be an important part of your experience, and you should schedule a meeting at least three times in the first thirty days with them.
3. Provide us your feedback. Take a few minutes after each course to complete the end-of-course survey. In addition, please complete the annual student survey that will be administered in November. Your feedback is used to refine and improve every aspect of the student experience. You will receive more information a few weeks before the survey is administered.
4. Build a strong support network. In addition to instructors, student advisors, and other students, the support of your family, friends, and coworkers will be important to your success. Let them know you are committed to graduating and share with them ways they can support you.

These tips will increase the likelihood of you completing your degree program in a timely and successful manner.

Once again, welcome, and thank you for choosing WUC!

Sincerely,

Dr. Yann Huang, Doctor of Business Administration & L.Ac.

President, WHITEWATER University of California

## Administration & Executives

For further information on the topics listed below, visit <http://www.WUCA.us> (website) or contact an official listed below.

### President Office

President and CEO: Dr. Yann Huang  
[yannhuang@wuca.us](mailto:yannhuang@wuca.us)

President Assistant: Dr. Camilla Lau  
[camillalau@wuca.us](mailto:camillalau@wuca.us)

### Administration and Academic Office

COO and CAO: Dr. Jeff Lo  
[jefflo@wuca.us](mailto:jefflo@wuca.us)

Dean, School of CSE: Dr. Chi Kao  
[chikao@wuca.us](mailto:chikao@wuca.us)

Dean, School of TCM: Dr. Yann Huang  
[yannhuang@wuca.us](mailto:yannhuang@wuca.us)

### Compliance Office

Director: Dr. Camilla Lau  
[camillalau@wuca.us](mailto:camillalau@wuca.us)

### General Affairs

Director: Dr. Chi Kao  
[chikao@wuca.us](mailto:chikao@wuca.us)

### Human Resources

Director: Dr. Camilla Lau

[camillalau@wuca.us](mailto:camillalau@wuca.us)

International Relations

Director: Hunghua Hsueh  
hunghuahsueh@WUCA.us

Treasurer and Finance

Director: Whitney Lin  
whitneylin@WUCA.us

## About WHITEWATER UNIVERSITY

### The Mission

The mission of WUC is to provide high-quality, accessible, affordable graduate education that integrates leadership and service to inspire students to engage in community and global transformation.

### The Vision

The WUC education advances students' awareness of diverse cultures and traditions and develops their ability to think critically and independently. The Institute remains fully committed to preparing students to pursue their academic and career goals, while helping them integrate social responsibility and leadership into all areas of their lives. WUC has expanded academic programs and degree offerings and extended its reach beyond on-campus courses by introducing flexible, online programs. At the same time, the institution continues its commitment to enriching the world and providing students the personal attention and support that has always characterized the WUC experience. The Institute is committed to serving students from a broad range of ethnic, geographic, and socioeconomic backgrounds through a supportive academic community that encourages and equips students to develop their unique talents.

WUC motivates students to live as ethically responsible individuals in whatever profession they pursue. The long-standing foundation of humanistic values and emphasis on social justice are embedded across WUC's academic and civic service programs.

The Institute is also dedicated to recruiting and retaining faculty and staff who support WUC's values and vision: an overarching commitment to mentoring and coaching; demonstrating integrity through scholarship, institutional improvement, and service to the larger community; and employing innovative technologies and teaching methods that meet the needs of twenty-first century learners.

### WUC Objectives

- ❖ To have qualified faculty with an awareness of ethics and moral characteristics to educate students in a stimulating learning environment that prepares graduates to hit the ground running when employed.
- ❖ To develop graduates the promote the community and contribute to a better society.
- ❖ To prepare individuals with the necessary skills to meet the challenges of the fast-moving local and global companies in a variety of industries.

- ❖ To cultivate a high level of integrity, physical and spiritual wellness, and professional ethics in our graduates.

## Admissions

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.

### Discrimination Policy

WUC does not discriminate on the basis of race, color, national or ethnic origin in administering its admission policies and its educational policies and programs.

### Catalog

WUC provides a catalog either hard or digital copy to prospective students who inquire about the programs. Enrolling students are required to review the catalog and agree to its terms prior to finalizing their enrollment in a program.

### Ability-to-benefit Students

WHITEWATER University of California does not admit ability-to-benefit students.

### Admission Requirements for Master of Science in Computer Science Engineering

In order to matriculate as a fully admitted degree-seeking graduate student, an individual must possess a baccalaureate degree from an institution accredited by an accrediting agency that is recognized by the U.S. Department of Education. Degree conferral will be verified by WUC. All verification and required transcript submission for matriculation must be completed within thirty days of enrollment. GRE or GMAT scores are not required. It is the student's responsibility to ensure the proper paperwork is submitted to verify that he or she has completed the prerequisites before the term begins. If the prerequisites are not complete at term start, the student will be required to complete them before starting a degree program.

### Admission Requirements for the MSTCM Program

Candidates for admission shall have successfully completed at least two (2) academic years (60 semester credits/90 quarter

credits) of education at the baccalaureate level that is appropriate preparation for graduate level work, or the equivalent from an institution accredited by an agency recognized by the U.S. Secretary of Education.

Up to 30 semester credits of general education may be earned through successful testing assessment using a combination of acceptable assessment modalities such as: College Advanced Placement (AP), College Level Examination Programs (CLEP), American College Testing Proficiency Program (ACT/PEP), and U.S. Armed Forces Institute Programs (USAFI). Although you may be awarded credit for these testing assessments, some state licensing agencies may not accept these credits if they were awarded by non-regionally accredited institutions.

If you have not completed an AA degree or higher, your general education must include: one course in English composition with critical thinking, two courses from different departments in Arts and Humanities, one course in College

Algebra or higher, one course in General Psychology, and one course in Social Sciences. Each of these courses must be a minimum of three semester credits each, a total of 18 semester credits. The remaining 72 semester credits (42 for the Master's) may include transferable coursework towards the MSTCM degree or any other topic of your interest. For a list of approved, transferable courses please contact the admissions office.

If you have not completed an AA degree or higher, your general education must include: one course in English composition with critical thinking. The courses must be a minimum of three semester credits. The remaining 87 semester credits may include transferable coursework towards the MSTCM degree or any other topic of your interest. For a list of approved, transferable courses please contact the admissions office.

## Pre-Qualification Services

If you prefer to apply before you have met the educational requirements, the admissions department will provide pre-qualification counseling services to assist you with the necessary steps to become eligible for the Master's degree program.

## Natural Science Requirements

The MSTCM program at WUC requires five natural science courses: General Biology, Chemistry, Physics, Human Anatomy and Human Physiology, each with a minimum of three semester credits. It is highly recommended you complete the courses General Biology, Physics, and Chemistry prior to entry. These courses can be taken from a community college, Institute, or on-line. If these courses have not been taken prior to enrollment you may take them concurrently, within your first two years of study. Please contact the admissions director regarding transfer credit of natural science courses or for a list of approved schools providing these courses.

Five-Year History Courses completed more than five years before enrollment will be evaluated to assure applicants have the requisite knowledge and skills.

## Certificate-Seeking Applicants

WUC will consider Certificate-Seeking applicants including: individuals interested in studying TCM for personal growth, students participating in the California Acupuncture Board-approved tutorial program, and health professionals who may be seeking to meet an educational objective other than the Master of Traditional Chinese Medicine degree. CERTIFICATE students must follow the same application and admissions procedures as required of degree-seeking students.

## Completing the Application for the MSTCM

To be considered for admission to WUC, the following items are required:

1. *Application for Admission.* Use your full legal name on all admission's documents, and specify your campus of preference.
2. *Recent photograph.* One recent passport-style photograph.

3. *Statement of purpose.* A one-page, typed essay describing your background, how you became interested in TCM and your plans beyond graduation. Not applicable to Certificate Studies students.

4. *Resume.* An up-to-date resume listing all previous education, job experience, accomplishments and volunteer work. Not applicable to Certificate Studies students.

5. *Application fee.* A non-refundable application fee of \$165.00

6. *Letter of Recommendation.* Provide the Letter of Recommendation form to two references of your choice (teachers, employers, colleagues, and/or healthcare professionals). References are encouraged to provide additional information regarding your strengths and character traits and why they believe you would be a good candidate for our graduate program. The Letter of Recommendation form must be completed in full, placed in a sealed envelope, signed across the flap, and mailed directly from the evaluator to the appropriate

campus. Not applicable to Certificate Studies students.

7. *Official transcripts of all college and/or Institute coursework.* Not applicable to Certificate Studies students.

Academic transcripts must be sent directly from the institution to the school.

***Please note:*** Education obtained abroad at an institution not accredited by the U.S. Department of Education must go through a credential evaluation agency. For more information, please contact the Admissions Department.

## Application Checklist

- Application for Admission
- Recent Photo
- Statement of Purpose
- Resume
- Application Fee

Supporting documents sent from original sources:

- Two letters of recommendation from teachers, employers, colleagues or healthcare professionals.
- Official transcripts from all colleges and/or universities attended

## Admission Process for All Programs

### Admission Interview

Once your application package and all supporting documents have been received, you will be invited to WUC for a personal interview with one of the members of the admissions committee. The admissions interview is a mutually beneficial process, allowing you the ability to acquire additional information not gained in previous interactions with WUC, while the

admissions committee has the opportunity to get to know you on a more personal level.

### Application Review

After your interview, your file will be reviewed by the admissions committee. In evaluating applicants, the committee takes into consideration many factors: academic achievement, professional experience, recommendations, accomplishments, personal character, and future potential.

For the MSTCM program, WUC selects students who have a sincere interest in TCM and integrative medicine, who have an interest in serving others as health care professionals, and who have demonstrated the aptitude to successfully complete the program. Our most successful students are prepared for their TCM education with well-developed study skills and a solid financial plan

### Admissions Decision

You will be notified in writing once a decision has been made by the

admissions committee, within two weeks after your interview.

### Deposit

Upon notification of acceptance, you will be asked to reserve your space with a \$165 nonrefundable application fee which will be applied to your first trimester tuition. This deposit will reserve your place in the upcoming trimester as space allows.

**Waiting List:** If there is not available space in the next entering class, accepted applicants will be placed on a waiting list. We will inform you of your position on the waiting list and you will be notified if space becomes available. If space is not available, those on the waiting list can elect to have their application brought forward to the following trimester

### New Student Orientation and Registration

One week prior to the beginning of the trimester, you will attend the New Student Orientation and Registration. The orientation reviews registration options, the academic calendar, college policies,

and the detail of Master's program. This is an excellent time to meet fellow students, faculty, and members of the administration. Student registration is scheduled on the day following orientation. During registration you will meet with the admissions director or an academic advisor to review your class schedule. If you need special assistance with the registration process or with specific scheduling needs, please contact the admissions office for assistance prior to registration day.

### Languages Taught in MSTCM

Due to the nature of the Master of Science in Traditional Chinese Medicine (MSTCM) is conducted and lectured using English and Chinese languages. This is the only program offered that is available in both English and Chinese languages.

The Program offers all courses taught in both English and Chinese which provide insight into one of the world's oldest civilizations and inspire the students to view the modern world from alternative perspectives. Training in the fundamental of linguistics complements program goals by

revealing the underlying structure of language. The exam required by the California Acupuncture Board enables student to become licensed is given in English and Chinese.

### English Competency

The English competency requirements differ between the Master's degrees. In summary they are:

- English Masters (MSTCM) program - TOEFL iBT 61
- Chinese Masters (MSTCM) program - TOEFL iBT 45

Applicants who have a TOEFL iBT of 45 or more may enter the Chinese MSTCM program.

Applicants who have a TOEFL iBT of 61 or more may enter the English MSTCM program.

### English Master of Traditional Chinese Medicine Program

If you are applying for the English MSTCM degree program, and your native language is not English, and you did not complete two years of college in the U.S., you are required to complete the Test of English as a Foreign Language (TOEFL)

internet-based test (iBT) or the International English Language Testing System (IELTS) exam.

The minimum scores to achieve on these tests are as follows:

| TOEFL |               |                | IELTS   |
|-------|---------------|----------------|---------|
| iBT   | Speaking Exam | Listening Exam |         |
| 61    | 26            | 22             | Level 6 |

### Chinese Master of Traditional Chinese Medicine Program

If you are applying for the Chinese MSTCM degree program, you are required to complete the Test of English as a Foreign Language (TOEFL) internet-based test (iBT) or the International English Language Testing System (IELTS) exam. The minimum scores to achieve on these tests are as follows:

| TOEFL iBT | IELTS   |
|-----------|---------|
| 45        | Level 5 |

If you do not meet the minimum English language proficiency requirements prior to enrollment, you may be conditionally admitted with the understanding that you will study English and meet the TOEFL or IELTS requirements

before you enter clinical internship.

### Transfer Students

If you are a student at another TCM/acupuncture school and are considering transferring to WUC, you can apply for our Master programs as a Transfer Student. Our transfer policies ensure that a transfer student's training from another school will meet the high standards of our MSTCM programs.

### Transferring into the MSTCM Degree Program

Students transferring into the MSTCM Degree Program need to have at least two years (60 semester units) of undergraduate studies with a GPA of 3.0 or higher and need to complete at least 40% of the academic courses and 50% of their clinical training at the Institute.

### Transferring TCM Courses

Transfer credit will be accepted for TCM courses taken from a nationally accredited TCM college, approved by the California Acupuncture Board, if the courses are equivalent in content to WUC.

TCM-related courses from a TCM college not approved by the California Acupuncture Board will only be accepted within the 50% limitations of the Board. TCM courses from tutorial or apprenticeship programs are non-transferable.

### Transferring Western Medicine Courses

Western medicine courses taken prior to enrollment at WUC may be transferred to fulfill part or the entire MSTCM Western medicine track, including natural science requirements. If the natural science courses: Biology, Physics, Chemistry, Human Anatomy, and Human Physiology have not been taken prior to enrollment, students may take them concurrently, within their first two years of study. These courses can be taken from a community college, an Institute, or online. Western medicine courses are transferable only from accredited, degree-granting colleges, universities, or TCM schools. Natural science credits from nonaccredited or vocational schools are non-transferable.

### Transferring Clinical Training Course

WUC accepts up to 50% of clinical training requirements for the MSTCM program.

### Transferring Credit Earned through Challenge Examination or Achievement Tests

Students may petition to receive credit for one course per department via a challenge examination, with the exclusion of the Clinical Training department. You may qualify to take a challenge examination only under the following circumstances: (1) The course was previously taken and passed at another institution with a grade lower than C, and did not qualify for transfer credit or (2) The course was previously taken and passed at another institution, but the course material was not sufficient to qualify for full transfer credit.

Upon qualification, you will be provided with the course syllabus to aid in preparation for taking the examination. The examination must be taken prior to the start of the program term in which the course is required. The passing

score for a challenge examination is 70%. A course can be challenged by examination only once. If you fail to pass the examination, you will be required to enroll in the course in the appropriate term at the full tuition cost.

Credit earned through assessment or achievement examinations at other Traditional Chinese Medicine schools are non-transferable. Transfer credit is not available for work or life experience.

### **Transfer Student Application Procedure and Requirements**

You must submit your admission application by the priority application dates of May 1 (Fall trimester), September 1 (Spring trimester), and March 1 (Summer trimester). If you are interested in admission during the summer term your application must be completed by or before March 1st.

Transfer students follow the same application and admissions procedures required of new students, in addition to meeting the transfer student requirements listed below. If you are a transfer student transferring to WUC from

another TCM college, you must submit the following documents along with the completed application:

### **Admissions for Certificate Programs**

Students must possess a high school diploma or GED and provide proof to the Institute prior to starting classes.

Exceptions to the requirement of a high school diploma or GED certificate programs are English as a Second Language, TOEFL, and the CEU program, Yang, Ying, Nei Jing.

### **Transfer Credits**

Course transfer may be accepted from any two- or four-year accredited college, normally institutions with regional accreditation in the United States. Students from non-United States colleges or universities should consult the transfer evaluators in the Office of the Institute Registrar for transfer eligibility.

Prior to enrolling at another institution, students should carefully review their specific

program requirements and policies with their academic advisor. For instance, many WUC programs require a grade of B or higher in certain courses. The student bears the ultimate responsibility for educational planning, selecting courses, meeting program requirements, and adhering to policies and procedures. There are no fees for transferring credits.

### **Notice Concerning Transferability of Credits and Credentials Earned at Our Institution**

The transferability of credits you earn at WHITEWATER University of California is at the complete discretion of an institution to which you may seek to transfer. Acceptance of the degree, diploma, or certificate that 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, diploma, or certificate that you earn at this institution are not accepted by 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 the WHITEWATER University of California to determine if your credits or degree, diploma, or certificate will transfer.

## Maximum Transfer Credits

### Maximum Transfer Credits That May Be Awarded from All Sources

Master's Degree up to 7 credits may be transferred.

\* \*For master's degrees, credit by examination does not apply.

Students who have previously completed course work in a recognized institution's graduate program may transfer up to 7 semester credits (or the equivalent) toward a WUC master's degree. Credits must reflect a 3.0 GPA (B grade) or better. Program-specific constraints on the type of credit accepted in transfer policy and noted in the sections on degree requirements.

## Petitioning Process

The Institute offers a petitioning procedure through which students can occasionally gain exceptions to the general rules included in this catalog. It is the direct responsibility of the student who seeks to deviate from the rules to complete the petitioning process. In cases where this might affect the student's eligibility to enroll in a particular course, the student

should begin the petitioning process during the previous term and must gain final approval for the petition no later than the add deadline of the term involved.

## Credit for Experiential Learning

WHITEWATER University does not evaluate nor grant credit for prior experiential learning.

## Articulation or Transfer Agreements

The Institute has not entered into any agreement for articulation or transfer of credit agreement with any colleges or universities.

## Official Notification

Students are responsible for keeping the Registrar's Office informed of any changes in name, address, email address, and/or telephone number. The mailing of notices, grades, and other Institute correspondence to the last address on record constitutes official notification.

## Course Substitutions

In addition to transferring equivalent courses, students may be interested in substituting an

elective course for a required course. Such substitutions are acceptable only if the substitution meets the specific educational goal of the student while maintaining the integrity of the degree program. The major advisor or designee determines the appropriateness of a substitution request and approves any substitutions.

### Enrollment

Students must be enrolled in a course during the term in which the coursework is initiated.

A degree-seeking student is considered actively enrolled or “Active” if he or she is registered for at least one course, has been assigned an instructor, and has not been administratively withdrawn for any reason. Students continue in Active status unless they have a term in which they fail to successfully complete at least one course. Students who do not complete any courses in a given term will be considered “Inactive” and will be withdrawn from the Institute unless they contact their

student advisor with a compelling explanation for the inactivity and are not subject to administrative withdrawal for any other reason.

### Students from Other Countries

WHITEWATER University does not offer visa services for students from other countries.

### Registration and Tuition

## Tuition

| <u>Degree Programs</u>   | <u>Applicat<br/>ion<br/>Fee—<br/>non-<br/>refunda<br/>ble</u> | <u>Book<br/>s</u>         | <u>Cost by<br/>Semester<br/>Credit/Un<br/>it</u>  | <u>Total<br/>Tuitio<br/>n<br/>Cost</u> | <u>Total<br/>Costs</u>     |
|--|---|---------------------------|---|--|----------------------------|
| <u>MSCSE*</u>  | <u>\$165</u>  | <u>\$ 40</u><br><u>0</u>  | <u>\$330 x 36</u>   | <u>\$11,88</u><br><u>0</u>             | <u>\$12,44</u><br><u>5</u> |
| <u>MSTCM*</u><br><br>This program is taught in<br>English and Chinese. | <u>\$165</u>  | <u>\$1,50</u><br><u>0</u> | <u>\$195 x 163</u><br><u>credits</u><br><u>plus</u><br><br><u>\$390 x 33</u><br><u>credits</u><br><u>clinical</u> | <u>\$44,65</u><br><u>5</u>             | <u>\$46,3</u><br><u>20</u> |
| <u>Graduation Fee--\$390 (only for<br/>degrees)</u>                    |   |                           |   |  |                            |
| <u>Certificate Programs</u>  |   |                           |   |  |                            |
| <u>ESL Level I, II, III each</u>                                       | <u>\$165</u>  | <u>\$ 50</u>              |   | <u>\$2,250</u>                         | <u>\$2,46</u><br><u>5</u>  |
| <u>TOEFL</u>   | <u>\$165</u>  | <u>\$ 50</u>              |   | <u>\$2,250</u>                         | <u>\$2,46</u><br><u>5</u>  |
| <u>Database Management</u>   | <u>\$165</u>  | <u>\$ 50</u>              |   | <u>\$2,250</u>                         | <u>\$2,46</u><br><u>5</u>  |
| <u>Java Programming</u>  | <u>\$165</u>  | <u>\$ 50</u>              |   | <u>\$2,250</u>                         | <u>\$2,46</u><br><u>5</u>  |
| <u>Web Application and<br/>Development</u>                             | <u>\$165</u>  | <u>\$ 50</u>              |   | <u>\$2,250</u>                         | <u>\$2,46</u><br><u>5</u>  |
| <u>TCM Herbology</u>   | <u>\$165</u>  | <u>\$ 50</u>              |   | <u>\$2,250</u>                         | <u>\$2,46</u><br><u>5</u>  |

**Continuing Education (CEU)**

Ying, Yang, & Nei Jing

\$ 80   \$ 80

\*\$30 Student Service Fee each Semester for all students only

## Academic Load for Degree Programs

Students who wish to enroll in more than 15 semester units of work must have a 3.0 GPA and obtain written permission from the respective division dean. Should a student's GPA fall below 2.0, the Institute will work with the student to determine the cause and then limit the number of units taken during the following semester to assist the student in being more successful. A full-time graduate academic load is 9 or more semester units.

**9 units/semester or credits or more**      **Full-time**

**7 – 8 units**       $\frac{3}{4}$  time

**4.5 – 6 units**       $\frac{1}{2}$  time

**1 – 4.4 units**      Less than  $\frac{1}{2}$  time

start date is within thirty days of completion of the previous term. Students who wish to take more than thirty days off must formally withdraw and then re-enroll when ready to continue their degree program. Upon, re- enrolling, students are subject to the terms and conditions of the new enrollment agreement, including the new tuition rate and all applicable fees.

## Taking a Break Between Terms

A student may take a break between terms as long as she/he notifies her/his student advisor at least two weeks prior to the end of the current term and the next term's

## Leave of Absence

WHITEWATER University does not allow students to take a Leave of Absence. Students that desire to leave the institution for a term or more must withdraw and re-enter as a new student subject to the rules, regulations, tuition, and program content at the time the student re-enrolls.

## Semester Unit of Study

To receive semester unit of credit, a student spends fifteen hours in class or in classroom-related activities during a semester. For each hour of time in class or classroom-related activities, students will expect to complete three hours of out-of-class work related to classroom learning (e.g., homework). The form of the in-class and out-of-class work and contact time with instructors will take different forms in classes that are independent and directed studies and research (e.g., senior or internships, etc.) classes. When registering for classes, students should keep in mind that 1 semester unit requires at least three hours of study for each hour spent in class.

To receive 1 semester unit of credit for a lab course, a student spends 30 hours in a lab setting with the same formula for out-of-class work required. To receive 1 semester unit of credit for a clinical course, a student spends 45 hours in a clinical setting with the same formula for out-of-class work required as described above.

## Course Cancellation by WUC

The Institute reserves the right to cancel a course, to change class times or class instructors, create new classes, and to alter any other policies or dates related to registration and student records at any time. Notification of such changes will be published in an appropriate manner.

## Cross Registration (Transferring Credit from another Institution)

Students who expect to enroll in a course at another institution while still planning to complete their degree at WUC and who would like to ensure the transferability of the course are encouraged to receive preapproval of the desired course(s) through the Registrar's Office. All courses for which prior approval is obtained are subject to the standards and conditions of the WUC Transfer Credit policy.

## Adds, Drops, and Withdrawals

Students may add courses through the tenth calendar day counted from the beginning of classes fall and spring terms<sup>1</sup>. Because of the nature of some courses, permission of the department head may be

required to add a course after classes begin. Students may also, as departmental policies permit, change a section of a course through the add deadline.

Students may drop courses until the 10th calendar day from the start of classes with no notation on the academic record for full term courses in fall and spring.

From the 11th day until the 84th calendar day, students may drop courses and will receive the notation of W (Withdrawn) for full term courses in fall and spring. Following are additional regulations related to dropping classes after the 10th day:

- Students are allowed four drops during their academic career.
- Students pursuing more than one major or degree simultaneously are not allowed additional drops beyond the four available drops.
- After the 84th day, no drops are permitted. From the 85th day to the last day of classes, students still have the option of withdrawing from the Institute (dropping all courses).
- Withdrawing from the Institute (dropping all courses) does not impact a student's four allotted drops.

- The W grade is not computed in the grade point average.

### Student Tuition Recovery Fund (STRF)

“The State of California established the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic loss suffered by a student in an educational program at a qualifying institution, who is or was a California resident while enrolled, or was enrolled in a residency program, if the student enrolled in the institution, prepaid tuition, and suffered an economic loss. Unless relieved of the obligation to do so, you must pay the state-imposed assessment for the STRF, or it must be paid on your behalf, if 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.

You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if you are not a California resident, or are not enrolled in a residency program." "It is important that you keep copies of your enrollment agreement, financial aid documents, receipts, or any other information that documents the amount paid to the school.

Questions regarding the STRF may be directed to the Bureau for Private Postsecondary Education, 1747 North Market Blvd., Suite 225, Sacramento, CA 95834, (916) 574-8900, (888) 370-7589.

To be eligible for STRF, you must be a California resident or are enrolled in a residency program, prepaid tuition, paid or deemed to have paid the STRF assessment, and suffered an economic loss as a result of any of the following:

1. The institution, a location of the institution, or an educational program offered by the institution was closed or discontinued, and you did not choose to participate in a teach-out plan approved by the Bureau or did not complete a chosen teach-out plan approved by the Bureau.
2. You were enrolled at an institution or a location of the institution within the 120 day period before the closure of the institution or location of the institution, or were enrolled in an educational program within the 120 day period before the program was discontinued.
3. You were enrolled at an

institution or a location of the institution more than 120 days before the closure of the institution or location of the institution, in an educational program offered by the institution as to which the Bureau determined there was a significant decline in the quality or value of the program more than 120 days before closure.

4. The institution has been ordered to pay a refund by the Bureau but has failed to do so.
5. The institution has failed to pay or reimburse loan proceeds under a federal student loan program as required by law, or has failed to pay or reimburse proceeds received by the institution in excess of tuition and other costs.
6. You have been awarded restitution, a refund, or other monetary award by an arbitrator or court, based on a violation of this chapter by an institution or representative of an institution, but have been unable to collect the award from the institution.
7. You sought legal counsel that resulted in the cancellation

of one or more of your student loans and have an invoice for services rendered and evidence of the cancellation of the student loan or loans.

To qualify for STRF reimbursement, the application must be received within four (4) years from the date of the action or event that made the student eligible for recovery from STRF.

A student whose loan is revived by a loan holder or debt collector after a period of non collection may, at any time, file a written application for recovery from STRF for the debt that would have otherwise been eligible for recovery. If it has been more than four (4) years since the action or event that made the student eligible, the student must have filed a written application for recovery within the original four (4) year period, unless the period has been extended by another act of law.

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

## Tuition and Fees Schedule

Students who enroll at WUC assume responsibility for the payment of all tuition and fees in accordance with the financial policies set forth below. WUC reserves the right to change the tuition and fee schedule for any given term without prior notice. After the beginning of a term, no changes in tuition or fees will affect that term.

Students may not enroll in a subsequent semester or course until previous balance is paid in full. Grades and transcripts will not be released if a student owes the Institute for charges or un-paid fees on their account.

If a student obtains a loan to pay for an educational program, the student will have to repay the full amount of the loan plus interest, less the amount of any refund, if the student withdraws from school.

## CALIFORNIA CANCELLATION AND REFUND POLICIES

Following are the key terms and conditions of the Institution's cancellation and refund policies:

### Student's Right to Cancel:

1. You have the right to cancel your agreement for a program of instruction, without any penalty or obligations, through attendance at the first class session or the seventh calendar day after enrollment, whichever is later. After the end of the cancellation period, you also have the right to stop school at any time, and you have the right to receive a pro rata refund if you completed 60 percent or less of the scheduled days in the current term in your program through the last day of attendance.
2. Cancellation may occur when the student provides a written notice of cancellation at the following address: WHITEWATER University of California, 3150 Almaden Expy #111, San Jose, CA 95118. This can be done by mail, email, or by hand deliver. Cancellation may also occur by the student's non-attendance through the end of the add/drop period.
3. The written notice if sent by mail, is effective when deposited in the mail properly addressed with proper postage. The written notice of cancellation need

not take any particular form and however expressed, is effective as it shows that the student no longer wishes to be bound by the Enrollment Agreement.

4. If the Enrollment Agreement is cancelled within seven days, the school will refund the student all monies paid, less a registration or administration fee, not to exceed \$250, within 45 after the notice of cancellation is received.

## Withdrawal from the Program:

You may withdraw from the Institute at any time after the cancellation period (described above) and receive a pro rata refund for the current term if you have completed less than 60 percent of the scheduled days through the last day of attendance in that term. The refund will be less a registration or administration fee, not to exceed \$250, and less any deduction for equipment not returned in good condition, within 45 days of withdrawal. If the student has completed more than 60% of the period of attendance for which the student was charged, the tuition is considered earned and the student will receive no refund.

For the purpose of determining a refund under this section, a student shall be deemed to have withdrawn from a program of instruction when any of the following occurs:

1. The student notifies the institution of the student's withdrawal or as of the date of the student's withdrawal, whichever is later.
2. The institution terminates the student's enrollment for failure to maintain satisfactory progress, failure to abide by the rules and regulations of the institution,

absences in excess of maximum set forth by the institution, and/or failure to meet financial obligations to the school.

3. The student has failed to attend classes for 21 consecutive calendar days. The Institute will access the student's enrollment status at the 14<sup>th</sup> day of absence and although the student will be automatically withdrawn after 21 days of absence, the Institute will use the student's 14<sup>th</sup> day as the Date of Determination for refund purposes.
4. The student fails to return from a leave of absence.

For the purpose of determining the amount of the refund, that date of the student's withdrawal shall be deemed the last date recorded attendance. The amount owed equals the daily charge for the program (total institutional charge, minus non-refundable fees, divided by the number of days in the program), multiplied by the number of days scheduled to attend, prior to withdrawal. For the purpose of determining when the refund must be paid, the student shall be deemed to have withdrawn at the end of 14 days.

If any portion of the tuition was paid from the proceeds of a loan or third party, the refund shall be sent to the lender, third party or, if appropriate, to the state or federal agency that guaranteed or reinsured the loan. Any amount of the refund in excess of the unpaid balance of the loan shall be first used to repay any student financial aid programs from which the student received benefits, in proportion to the amount of the benefits received, and any remaining amount shall be paid to the student.

The student's date of determination (DOD) is the date the student notifies the school of their intent to withdraw, the date the school determines the student must be withdrawn based on existing policy, or the date that the student was scheduled to return from a leave of absence and failed to return. Refunds will be issued by the Institute within 45 days of the DOD.

## Refund Policy

Should a student's enrollment be terminated or should the student withdraw for any reason, all refunds will be made according to the following refund schedule:

- Week 1 – 2                    100%
- Week 3 - 4                    75%
- Week 5 – 6                    50%
- Week 7 or later                0%

**Cancellation and retake:** Students may drop courses and will receive the notation of W (Withdrawn) for full-term courses in the semester.

Should the students complete the certificate sessions of the training programs but did not pass the certification examination, he/she may retake the same course one time at no additional cost.

**Student attending WHITEWATER University of California are not eligible for federal student financial aid funds. WUC is not accredited.**

## Administration

### Facility

Classes are held on the campus at 3150 Almaden Expressway, Suite 111, San Jose, CA 95118 and online. Whitewater has no other facilities. The facility is composed of classrooms and administrative offices. There is no special equipment needed to deliver the programs offered.

The MSTCM program has a waiting area with registration front desk; diagnosis/treatment rooms; patient medical record room with locked cabinet. Each treatment room has a massage table/bed, sink, hazardous waste needles box, and heat lamps.

### Legal Status

WHITEWATER University of California is a private, non-profit 501(c)(3) corporation that is approved to operate by the Bureau of Privat Postsecondary Education in California, and that approval to operate means compliance with state standards as set forth in the CEC and 5.CCR.

WHITEWATER University has no pending petition in bankruptcy, 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.).

### Unanswered Questions

Any question a student may have regarding this catalog that has not been satisfactorily answered by the institution may be directed to the:

Bureau for Private Postsecondary  
Education  
1747 North Market Blvd., Suite 225,  
Sacramento, CA 95834  
Phone: (916) 574-8900  
Toll Free: (888) 370-7589  
[www.bppe.ca.gov](http://www.bppe.ca.gov)

## Student Policies

WUC reserves the right to modify existing academic policies or to develop additional policies regarding the relationship between the institution and those who enroll in its programs. This includes tuition and fee schedules, enrollment procedures and requirements, program and course offerings, graduation requirements, and registration policies and procedures. Those admitted to study at WUC agree, by virtue of their enrollment, to be governed by such policies as are established by the Institute's board and administration. As a result, the Institute maintains disciplinary authority over students as it pertains to continuation of enrollment by students, their award of academic credit, and their conferring of degrees and certificates.

### Catalog Notice

As a prospective student, you are encouraged to review this catalog prior to signing an enrollment agreement. A catalog will be provided to you prior to enrollment in either hard or digital

copy. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement.

### Attendance

Each student is required to regularly attend each class in the program in which the student is enrolled. Attendance is directly tied to academic performance; there attendance is recorded and required for each class session. WUC does not differentiate between an

excused and an unexcused absence. Except in unusual instances with documented mitigating circumstances, students will be automatically withdrawn after missing 21 consecutive calendar days. Each student is directly responsible to the individual faculty member and/or Program Director for absences and for making up work missed. Hours of makeup work will not be accepted as hours of class time.

### Academic Honesty and Integrity

The Institute insists on academic integrity and honesty and requires that all student submissions reflect the honest, ethical, and accurate representation of a student's academic work and record. Students are required to attest to the originality of all submissions.

Plagiarism is defined as “when a writer deliberately uses someone else’s language, ideas, or other original material (not common-knowledge) without acknowledging its source” (Council of Writing Program Administrators). Plagiarism includes copying someone else’s work without using correct citation and/or attribution, and it does include copying material from Wikipedia or any other Internet source. WUC recognizes that instances of plagiarism can occur due to student misunderstanding or lack of knowledge about standards and practices of citation and attribution. However, it is the student’s responsibility, as part of his/her academic development, to learn and adhere to the rules of appropriate citation and attribution. When evidence suggests that plagiarism has occurred due to the lack of a

student’s understanding of citation guidelines, faculty are encouraged to work with the student to provide her/him with an opportunity to correct the issues and resubmit work. Faculty may adjust the grading standards in the course to penalize the student’s resubmission by lowering the grade. It is solely within the faculty member’s discretion to make this determination and to decide whether to allow the student to resubmit the assignment, fail the student on the assignment, or fail the student in the course. Faculty may recommend that the student be administratively withdrawn from the Institute.

Examples of academic dishonesty include but are not limited to:

- unauthorized collaboration between two or more students on a course project, assessment, or assignment
- sharing quiz or final examination questions or answers in public forums (e.g. Internet sites, blogs, etc.) without the Institute’s express written consent
- submitting academic records (e.g. transcripts) that have

been altered in any way or that are fraudulent

- submitting work that was not written or created by the student. Examples are papers purchased from others prepared by ghostwriters.

Violations of the Academic Integrity and Honesty policy will become part of the student's record. Depending on the severity and/or frequency of the violation(s), the faculty may take disciplinary action. This could include submitting a formal recommendation to the Institute administration that the student be withdrawn from the Institute. A student who has become subject to disciplinary action may submit an appeal to the academic dean per the Institute's Appeals and Grievances policy.

### Student Code of Conduct

The code of student conduct is established to foster and protect the core missions of the Institute; to foster the scholarly and civic development of the Institute's students in a safe and secure learning environment and to protect the people, properties and

processes that support the Institute and its missions. The core missions of the Institute are research, teaching and learning, and service. Preservation of academic freedom and free and open exchange of ideas and opinions for all members of the Institute are central to these missions.

### Jurisdiction

The code applies to the on-campus conduct of all students and registered student organizations, including conduct using Institute computing or network resources. The code also applies to the off campus conduct of students and registered student organizations in direct connection with:

- A. Academic course requirements or any credit-bearing experiences, such as internships, field trips, study abroad, or student teaching;
- B. Any activity supporting pursuit of a degree, such as research at another institution or a professional practice assignment;
- C. Any activity sponsored, conducted, or authorized by

- the Institute or by registered student organizations;
- D. Any activity that causes substantial destruction of property belonging to the Institute or members of the Institute community, or causes or threatens serious harm to the safety or security of members of the Institute community; or
  - E. Any activity in which a police report has been filed, a summons or indictment has been issued, or an arrest has occurred for a crime of violence.

The code governs all campuses of the Institute. However, students attending at regional campuses, centers, or institutes are advised to consult their local resources for additional information or rules pertaining to those locations, which may create hearing boards or processes for the locations, consistent with these rules.

The Institute reserves the right to administer the code and proceed with the hearing process even if the student withdraws from the Institute, is no longer enrolled in classes, or subsequently fails to

meet the definition of a student while a disciplinary matter is pending.

Students continue to be subject to city, state, and federal laws while at the Institute, and violations of those laws may also constitute violations of the code. In such instances, the Institute may proceed with Institute disciplinary action under the code independently of any criminal proceeding involving the same conduct and may impose sanctions for violation of the code even if such criminal proceeding is not yet resolved or is resolved in the student's favor.

### Prohibited Conduct

Any student found to have engaged, or attempted to engage, in any of the following conduct while within the Institute's jurisdiction, will be subject to disciplinary action by the Institute. For the purposes of this section, attempt shall be defined as conduct that, if successful, would constitute or result in the prohibited conduct. Any student who abandons an attempt or prevents the prohibited conduct from occurring under circumstances that demonstrate a

complete and voluntary renunciation of the prohibited conduct will not be subject to disciplinary action by the Institute.

A. Academic misconduct: any activity that tends to compromise the academic integrity of the Institute or subvert the educational process. Examples of academic misconduct include, but are not limited to:

1. Violation of course rules as contained in the course syllabus or other information provided to the student;
2. Knowingly providing or receiving information during examinations such as course examinations and candidacy examinations; or the possession and/or use of unauthorized materials during those examinations;
3. Knowingly providing or using unauthorized assistance in the laboratory, on field work, in scholarship or on a course assignment;

4. Submitting plagiarized work for an academic requirement. Plagiarism is the representation of another's work or ideas as one's own; it includes the unacknowledged word-for-word use and/or paraphrasing of another person's work, and/or the inappropriate unacknowledged use of another person's ideas;
5. Submitting substantially the same work to satisfy requirements for one course or academic requirement that has been submitted in satisfaction of requirements for another course or academic requirement without permission of the instructor of the course for which the work is being submitted or supervising authority for the academic requirement;
6. Falsification, fabrication, or dishonesty in creating or reporting laboratory results, research results, and/or any other assignments;

- 7、 Serving as, or enlisting the assistance of, a substitute for a student in any graded assignments;
  - 8、 Alteration of grades or marks by the student in an effort to change the earned grade or credit;
  - 9、 Alteration of academically related Institute forms or records, or unauthorized use of those forms or records;
  - 10、 Engaging in activities that unfairly place other students at a disadvantage, such as taking, hiding or altering resource material, or manipulating a grading system; and
  - 11、 Violation of program regulations as established by departmental committees and made available to students.
- B. Endangering health or safety
- 1、 Endangering behavior: taking or threatening action that endangers the safety, physical or mental health, or life of any person, or creates a reasonable fear of such action. Relationship violence or intimate partner abuse may constitute endangering behavior.
  - 2、 Stalking: engaging in a pattern of unwanted conduct directed at another person that threatens or endangers the safety, physical or mental health, or life or property of that person, or creates a reasonable fear of such a threat or action.
- C. Sexual misconduct Physical contact or other non-physical conduct of a sexual nature in the absence of clear, knowing and voluntary consent.
- D. Destruction of property Actual or threatened damage to or destruction of Institute property or property of others, whether done intentionally or with reckless disregard.
- E. Dangerous weapons or devices Storage or possession of dangerous weapons, devices, or substances including, but not limited to, firearms, ammunition, or fireworks, unless authorized by an appropriate Institute official or permitted by a

- Institute policy, even if otherwise permitted by law such as the use or misuse of weapons, devices, or substances in a manner that causes or threatens serious harm to the safety or security of others.
- F. Dishonest conduct Dishonest conduct, including, but not limited to: knowingly reporting a false emergency; knowingly making false accusation of misconduct; misuse or falsification of Institute or related documents by actions such as forgery, alteration, or improper transfer; submission of information known by the submitter to be false to a Institute official.
- G. Theft or unauthorized use of property Theft, or the unauthorized use or possession of Institute property, services, resources, or the property of others.
- H. Failure to comply with Institute or civil authority Failure to comply with legitimate directives of authorized Institute officials, law enforcement or emergency personnel, identified as such, in the performance of their duties, including failure to identify oneself when so requested; or violation of the terms of a disciplinary sanction.
- I. Drugs Use, production, distribution, sale, or possession of drugs in a manner prohibited under law. This includes, but is not limited to, the misuse of prescription drugs.
- J. Alcohol Use, production, distribution, sale, or possession of alcohol in a manner prohibited under law or applicable Institute policy or facility policy.
- K. Unauthorized presence Unauthorized entrance to or presence in or on Institute premises.
- L. Disorderly or disruptive conduct Disorderly or disruptive conduct that unreasonably interferes with Institute activities or with the legitimate activities of any member of the Institute community.
- M. Hazing Doing, requiring, or encouraging any act, whether

or not the act is voluntarily agreed upon, in conjunction with initiation or continued membership or participation in any group, that causes or creates a substantial risk of causing mental or physical harm or humiliation. Such acts may include, but are not limited to, use of alcohol, creation of excessive fatigue, and paddling, punching or kicking in any form.

- N. Violation of Institute rules or federal, state, and local laws Violation of other published Institute regulations, guidelines, policies, or rules, or violations of federal, state, or local law. These Institute regulations, guidelines, policies, or rules include, but are not limited to, those which prohibit the misuse of computing resources, sexual harassment, rules for student groups or organizations, and residence hall rules and regulations.
- O. Recording of images without knowledge Using electronic or other means to make a video or photographic record of any person in a location where

there is a reasonable expectation of privacy without the person's prior knowledge, when such a recording is likely to cause injury, distress, or damage to reputation. This includes, but is not limited to, taking video or photographic images in shower/locker rooms, residence hall rooms, and restrooms. The storing, sharing, and/or distributing of such unauthorized records by any means is also prohibited.

### Appeals and Grievances

Grades and Personal Issues: Students have the right to appeal under due process. Appeals must begin with an appeal to the faculty no later than 10 class days after the grade decision is made. If a student wishes to appeal the decision further, appeals are made in writing beginning with the associate dean, chair, or program director's level and following department, college or school procedures for additional levels. Appeals at each level must be made in writing no later than 10 class days after the date of the decision of the previous level.

The ten days for appeals at each level do not include weekends, holidays or days between academic sessions. The decision of the associate dean, chair, or program director is final. The decision will be rendered within ten days after the appeal is filed.

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 website, [www.bppe.ca.gov](http://www.bppe.ca.gov) or call toll-free [888.370.7589](tel:888.370.7589).

## Copyright

The Institute complies with the copyright law of the United States, which prohibits the making or reproduction of copyrighted material except under certain specified conditions. Copyright protects the creators of original literary, dramatic, musical, artistic, and certain other intellectual works (Title 17, *U.S. Code*). The protection extends to both published and unpublished material. "Section 106 of the 1976 Copyright Act generally gives the owner of copyright the exclusive right to do and to authorize others to do the following" (*Copyright Basics*, US Copyright Office)

## Records & Documents

### Privacy Rights of Parents & Students

In accordance with the provisions of the Family Educational Rights and Privacy Act (FERPA) [Section 438 of the General Education Provisions Act, 20 USC 1232], commonly referred to as the “Buckley Amendment”, WHITEWATER University has adopted the regulations given below to protect the privacy rights of its students. Revisions and clarifications will be published as experience

### Location of Educational Records

Educational records are kept in the Office of Records and Registration. Other offices may maintain informal or unofficial records. Inquiries concerning those records should be made in writing to the registrar’s office.

### Retention of Records

Academic transcripts for credits earned and/or transferred at WUC are maintained permanently.

with the law and the Institution’s policy warrants. Each year, students are informed of their rights under this act through the Institute catalog and the Student Handbook. In compliance with this federal law, the Institute has established a policy to protect students from misuse of information in their personal folders and to allow students access to their own folders. The policy is summarized as follows:

Student admissions and general files are kept for five years.

### Disclosure of Information from Records

#### *Directory Information*

WHITEWATER University, unless requested not to do so by the student, will release directory information about individual students to Institute’s personnel inquiries. “Directory Information” is limited to name, address, dates of enrollment, date of graduation, degree received, curriculum in

which the student is enrolled, date of birth, participation in officially recognized activities and sports, weight and height of athletic team members and official Institute honors, such as inclusion in the Dean's List. Students who do not wish to have directory information released must complete a "Request to Prevent Disclosure of Directory Information" form in the registrar's office. In no case will the Institute release a list of all students or groups of students to non- Institute personnel.

#### *Non-directory Information*

No information other than that contained in the directory (as outlined above) will be released without a student's written consent except when prior written consent is not required by the Act (FERPA). The Institute must disclose educational records without written consent of students to those federal and state government agencies and officials provided by the law. The Institute must also provide access to educational records to:

- Personnel within the Institute determined by the Institute to

have legitimate educational interest.

"Legitimate educational interest" is defined as the demonstrated need to know by those Institute officials who act in the students' educational interest, professional employees and other persons who manage student record information;

- Officials of other institutions in which a student seeks to enroll on condition that the issuing institution attempts to inform students of the disclosure, or makes such a transfer of information a stated institutional policy (this notification is to be considered as such);
- Organizations contributing to a student's financial aid, or determining financial aid decisions concerning eligibility, amount, conditions and enforcement of terms of said aid;
- Organizations conducting studies to develop, validate and administer predictive student aid programs or to improve instruction;
- Accrediting organizations carrying out their functions;

- Parents who have established a student's status as a dependent according to the Internal Revenue Code (parent(s) must provide a certified copy of the appropriate federal income tax form);
- Persons in compliance with a judicial order or lawfully issued subpoena, provided the Institute makes an attempt to notify the student (the student will be notified in writing by the Office of Records and Registration that a subpoena has been issued); and
- Persons in an emergency, if the knowledge of information is, in fact, necessary to protect the health and safety of students or other persons

NOTE: Information concerning applicants to the Institute who have not yet enrolled will not be released to anyone

### Inspection and Review of Records

Students may inspect and review their educational records upon request to the Office of Records and Registration. Students may examine their own files after January 1, 1975. There are however, limitations that exist on students' rights to inspect and review these

records. The Institute reserves the right to deny access to confidential letters and recommendations associated with admissions, employment or job placement, or honors to which students have waived rights of inspection and records containing information about more than one student. (In such cases, the Institute must permit access to that part of the record which pertains only to the inquiring student.)

### Challenge of Records

Students have the right to challenge records they believe to be inaccurate, incomplete or incorrectly disseminated. If the outcome of the challenge is unsatisfactory, the student has the right to a hearing. And if the outcome of the hearing is unsatisfactory, the student may submit an explanatory statement for inclusion in the educational record. Such a statement shall become part of the information contained in the educational record and will be disclosed with it.

### Records of Requests and Disclosures

WHITEWATER University will maintain records of requests and disclosures on non-directory information. The records of requests shall include the names and addresses of the person(s) who requested the information. Records of requests and disclosures need not be maintained for:

- Those requests made by students for their own use;
- Those disclosures made in response to written requests from students;
- Those made by school officials; and
- Those specified as Directory Information. The records of disclosures and requests for disclosures are considered a part of the students' educational records; they must therefore be retained as long as the educational records to which they refer are retained by the Institute.

### Right of Complaint

A student who believes that the Institute is not complying with the requirements of the Family Educational Rights and Privacy Act or the regulations issued by the

Department of Education implementing that Act, may file complaints in writing to:

THE FERPA OFFICE  
U.S. DEPARTMENT OF EDUCATION  
4000 MARYLAND AVENUE, SE  
WASHINGTON, DC 20202.

A copy of the Family Educational Rights and Privacy Act, as amended, is available in the office of the registrar.

### Graduation Requirements

A minimum CGPA of 3.00 with no grade lower than a 2.00 for any course that applies to the graduate degree. Upon successful completion of all required courses in a program, the graduate will be awarded a Master of Science in Computer Science Engineering, a Master of Science in Traditional Chinese Medicine. The graduation fee for degree programs is \$390.

Degrees are conferred during the month following the completion of all degree requirements.

Certificate and continuing education programs require a minimum CGPA of 2.00 with no grade lower than a 1.00 to graduate.

Students who fail to meet their financial obligations may have

their official transcripts and/or diploma/certificate withheld.

### **Application for Graduation**

Student must file an Application for Graduation form no later than

sixty days prior to graduation for degree programs. A student must be in good financial standing in order to graduate.

## Student Services

WHITEWATER University is committed to providing high quality education. Our mission is to provide the support required for you to achieve your goal.

### Advising and Guidance

Students are encouraged to meet with their instructors and advisors at least three times during the first thirty days of entering the program. After the initial meetings, additional session should be scheduled as needed e.g. academic or advising assistance is required.

### Referral Services

Although WHITEWATER University does not provide direct assistance, various resources and referrals are available from the Student Affairs Department. Students may request resource assistance by visiting the Student Affairs Department or by contacting their instructors who will guide them to the referral services. The resources available for referral are transportation; childcare; crisis counseling; temporary housing/shelter; and low-cost medical assistance.

### Tutoring

Students in need of extra assistance because of academic difficulties may arrange for tutoring through their instructor or department chair. Tutoring is available by appointment only and may be coordinated directly with Student Affairs.

### Housing

WHITEWATER University does not offer housing nor dormitory facilities for its students. The Institute assumes no responsibility for housing.

While the institution has no responsibility to find or assist a student in finding housing, apartments are located reasonably near the institution's facilities and an estimate of the approximate cost or range of cost is \$1,000 to \$2,000.

### Library

WHITEWATER University provides students with list of free databases to assist them in research

and development of projects and workpapers.

In addition, students in the degree programs are able to access LIRN, a large database that provides adequate resources online. Once the student has registered for the degree programs, a code will be assigned to the student and the student will have access to LIRN.

### Placement Services

The Institute is committed to assisting graduates in finding employment in the field for which they have been trained. However, the Institute cannot guarantee employment. During the program the Placement Coordinator meets with students to review the following: resume preparation, cover letters, professional networking, interviewing, mock interview, job search skills, and follow-up after the interview.

## Program & Course Information

### Notice to Prospective Degree Program Students

This institution 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 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.

Institutional Representative Initials: \_\_\_\_\_ Student Initials: \_\_\_\_\_  
Date \_\_\_\_\_ Date \_\_\_\_\_

(b) The student and an institutional representative shall initial and date the notice prior to executing an enrollment agreement. An initialed copy of the notice shall be given to the student and the original shall be retained in the enrolled student's records.

## Course Numbers and Levels

Each course offered by the Institute is identified by the name of the academic discipline and a three-digit course number. These numbers indicate course level.

| Course Numbers | Level  |
|----------------|--|
| 000-099        | Noncredit; preparatory.  |
| 100-299        | Lower division; primarily for freshmen and sophomores.   |
| 300-499        | Upper division; primarily for juniors and seniors;   |
| 500-599        | Graduate; sometimes available for undergraduate credit;  |
| 600-699        | Advanced graduate; open to graduate students; available for undergraduate credit (with approval of instructor) for students holding a degree who are taking additional work as undergraduate Certificate students. |

## Grades and Credit Hours

Each course at the Institute carries a number of credit hours specified in the course description. At the completion of each course, a student will be assigned a grade reflecting the student's performance in the course. Passing grades carry a certain number of quality points per credit hour in the course. A student's grade point average is obtained by dividing the

number of quality points the student has accumulated by the number of hours the student has attempted at WUC, not including hours for which grades of I and W have been received.

| Grade | Performance Level  | Quality Points Per Semester Hours of Credit |
|-------|--------------------|---|
| A     | Superior           | 4.0   |
| A-    | Intermediate Grade | 3.7   |
| B+    | Very Good          | 3.3   |
| B     | Good               | 3.0   |
| B-    | Intermediate Grade | 2.7   |
| C+    | Fair               | 2.3   |
| C     | Satisfactory       | 2.0   |
| C-    | Unsatisfactory     | 1.7   |
| D+    | Unsatisfactory     | 1.3   |
| D     | Unsatisfactory     | 1.0   |
| D-    | Unsatisfactory     | 0.7   |
| F     | Failure            | 0.0   |
| I     | Incomplete         | 0.0   |
| W     | Withdrawal         | 0.0   |

### Grade of Incomplete

Under extraordinary circumstances and at the discretion of the instructor, the grade of I (Incomplete) may be awarded to students who have satisfactorily completed a substantial portion of the course but cannot complete the course for reasons beyond their control.

- The I grade is not issued in lieu of the grade F.
- The terms for the removal of the I, including the time limit for removal of the I, is decided by the instructor.
- It is the responsibility of the student receiving an I to arrange with the instructor whatever action is needed to remove the grade at the earliest possible date, and in any event, within one calendar year of the assignment of incomplete.
- Students may not remove an I grade by re-enrolling in the course.
- The I grade does not carry quality points and is not computed as a grade of F in the grade point average.

- If the I grade is not removed within one calendar year or upon graduation, it shall be changed to an F and count as a failure in the computation of the grade point average.
- A student need not be enrolled at the Institute to remove a grade of incomplete.
- W (Withdrawal) is assigned in courses when a student has officially withdrawn from the Institute. W is also assigned in courses when a student withdraws from a course between the 11th and 84th calendar day of classes.

### **Grades that do not Influence Grade Point Average**

The following grades carry no quality points and hours for which these grades are earned are not counted in computing a student's grade point average.

## Satisfactory Academic Progress (SAP) Policy

Students attending WHITEWATER University are not eligible for federal student financial assistance. Student must make Satisfactory Academic Progress (SAP) toward a certificate, diploma, or degree. Students must meet THREE requirements to maintain their academic eligibility:

1. **QUALITATIVE:** Students must meet a required minimum cumulative grade point average.
2. **QUANTITATIVE:** Students are required to complete (pass) a minimum 67% of hours they attempt.
3. **MAXIMUM TIME FRAME:** Students must complete their degree within a timely manner.

These three requirements are summarized below. Failure to meet all of these minimum academic standards will result in the loss of federal financial aid eligibility. The SAP policy applies to *all* students enrolled in undergraduate and graduate level programs including those not receiving federal financial aid. Additionally, SAP applies to all periods of a student's enrollment. Students are expected to know, based on this Satisfactory Academic Progress Policy, when they may be placed on Warning or Probation.

Qualitative - Grade Point Average

Requirement

Students must meet a required minimum cumulative grade point average to remain eligible for academic standing:

| Number of Weeks in Attendance | Required GPA Rate For... |                   | Completion of Courses Attempted<br><br>Graduate Programs |
|-------------------------------|--------------------------|-------------------|--|
|                               | Certificate Programs     | Graduate Programs |  |
| 15                            | 1.00                     | 3.00              | 66.67%   |
| 30                            | 1.50                     | 3.00              | 66.67%   |

|              |      |          |        |
|--------------|------|----------|--------|
| 45           | 2.00 | 3.0<br>0 | 66.67% |
| 60           | 2.00 | 3.0<br>0 | 66.67% |
| 75           | 2.00 | 3.0<br>0 | 66.67% |
| 90<br>&<br>+ | 2.00 | Same     | Same   |

### Quantitative – Satisfactory Completion of Semester Credit Hours Requirement

Students must also successfully complete and pass 67% of all courses they attempt (see chart above). Semester units attempted include all courses for which the student earned or received a grade from the Institute. The following grades are considered attempted hours: A, B, C, D, F, I, W. All transfer credits are included as units attempted and completed.

Assigned grades of W are not included in the CGPA calculation.

## Maximum Timeframe

Students must complete their program within 150% of the published length of the program measured in credit hours attempted. Progress is evaluated cumulatively at the completion of each payment period to ensure completion of the program within the 150% maximum timeframe. The following grades are considered attempted hours: A, B, C, D, F, I, W. All transfer credits are included in this calculation. Once students reach their maximum timeframe (150% of the published length of the program) for their specified degree, they are no longer eligible for receiving academic credential. If there are extenuating circumstances that prevented acceptable progress, students may request an extension of eligibility by submitting a petition to the President. All petitions for reinstatement should be received no later than the first day of class in the term suspension takes effect.

## Academic and/or Attendance Warning

Students who have violated the attendance policy or whose grades do not reflect satisfactory academic progress are placed on warning status for one semester. Students are removed from Warning status if they achieve academic progress and/or attendance standards. Failure to achieve academic progress or meet attendance requirements are placed on Probation for the next semester.

## Probation

Students are placed on Probation status if they have not met appropriate SAP or attendance standards. The student will receive a letter with a list of conditions that must be met to complete with the completion and grade point average requirements and/or attendance by the end of the term. If the student meets the SAP requirements and has satisfactory attendance, the status is removed. If not, the student is dismissed.

## Dismissal

Students who have failed the standards for removing Probation are dismissed. Students who have violated the Student Code of Honor may be dismissed.

## Appeal

The student's appeal of Warning, Probation, or Dismissal status must be submitted in writing with supporting documentation to the Program Director the second week of the new term. The appeal should be on the basis of special circumstances, including (but not limited to) student injury or illness, the death of a relative, or other situations resulting in undue hardship on the student. The appeal will be reviewed by a committee of three, including the President of WUC and two faculty members. The decision of the committee is final. The student will be notified of the results of the appeal within one week.

## Academic Programs

| Standard Occupational Classification (CIP) Code | Program  | Credential                             | Semester Credit Hours/Clock Hours | Months Or Weeks |
|---|--|--|-----------------------------------|-----------------|
| 11.0199<br>11.0101                              | Master of Science in Computer Science Engineering        | Master of Science Degree               | 36 credits                        | 14 months       |
| 51.3301   | Master of Science in Traditional Chinese Medicine        | Master of Science Degree               | 196 credits                       | 42 months       |
| 13.1401   | English as a Second Language<br>Levels I, II, and III    | Certificate                            | 450 clock hours each level        | 15 weeks        |
| 13.1401   | TOEFL  | Certificate                            | 450 clock hours                   | 15 weeks        |
| 11.0699   | Database Management                                      | Certificate                            | 450 clock hours                   | 15 weeks        |
| 11.0699   | Java Programming   | Certificate                            | 450 clock hours                   | 15 weeks        |
| 11.0699   | Web Application and Development                          | Certificate                            | 450 clock hours                   | 15 weeks        |
| 51.3702   | TCM Herbology  | Certificate                            | 450 clock hours                   | 15 weeks        |
| 51.3301   | Ying, Yang, & Nei Jing<br><br>Approved by the California | Continuing Education Unit<br><br>1 CEU | 10 clock hours                    | 1 week          |

Acupuncture  
Board

## Master of Science in Computer Science Engineering (MSCSE)

The Master of Science in Computer Science Engineering program is designed to provide breadth of understanding in the core topics of computer science, in-depth advanced material, and a range of topics in the research areas of the faculty. A balance of theory and practice is presented, preparing students to perform cutting edge research as well as training students to become practicing computer scientists or software engineers in business, industry, or government. A thesis option is available to prepare students for doctoral studies or other research-oriented career paths.

### Program Outline for MSCSE

| Course Number & Title                                 |  | Units | Total Hours |
|---|--|-------|-------------|
| Foundation: 9 units                                   |  |       |             |
| CSE430  | Computer Architecture                            | 3     | 45          |
| CSE450  | Operation System                                 | 3     | 45          |
| CE450   | Fundamentals of Embedded Engineering             | 3     | 45          |
| Computer Science (select any 4 courses): 12 units     |  |       |             |
| CS500   | Advanced Structured Programming and Algorithms   | 3     |             |
| CS510   | Advanced Unix/Linux Programming                  | 3     | 45          |
| CS515   | Network Security                                 | 3     | 45          |
| CS520   | Data Modeling and Implementation                 | 3     | 45          |
| CS560   | Advanced Internet Programming and Design         | 3     | 45          |
| CS570   | Introduction to Machine Learning and Data Mining | 3     |             |
| Computer Engineering (select any 4 courses): 12 units |  |       |             |
| CE520   | Real-time Systems and Programming                | 3     | 45          |

|  |  |   |    |
|--|--|---|----|
| CE530  | Embedded Design in Network Environment         | 3 | 45 |
| CE535  | Embedded Software Design in Linux              | 3 | 45 |
| CE540  | Advanced Digital System Design with FPGA       | 3 | 45 |
| CE550  | Parallel Computer Architecture and Programming | 3 | 45 |
| Capstone ( 1 course of the following): 3 units |  |   |    |
| CSE580   | Independent Studies (1-4 units)                | 3 | 45 |
| CSE590   | Capstone & Thesis                              | 3 | 45 |
| CSE595   | Internships                                    | 3 | 45 |
| Prerequisites                                  |  |   |    |
| CE300  | Introduction to Circuit Analysis               | 3 | 45 |
| CS300  | Program Design and Analysis in C Language      | 3 | 45 |
| CS310  | Object-Oriented Programming C++                | 3 | 45 |
| CS320  | Introduction to Unix/Linux                     | 3 | 45 |
| CS330  | Introduction to Networking                     | 3 | 45 |
| CS340  | Java and Internet Applications                 | 3 | 45 |

## Class Delivery for MSCSE:

Total MSCSE program units: 51 units (min. 36 units required to graduate)

Class Delivery Instruction:

- ❖ In person/face-to-face course: classes are taught in physical location, face-to-face. (P)
- ❖ Online course: classes are taught through Internet 100%. (O)
- ❖ Hybrid course: professors have the flexibility to adjust the schedule as long as the material is covered and half of the course is delivered in the traditional method (H)

| Course Number & Title | Units | Units online | Delivery |
|-----------------------|-------|--------------|----------|
| Foundation: 9 units   |       |              |          |

|   |  |    |      |   |
|---|--|----|------|---|
| CSE430  | Computer Architecture                            | 3  | 3    | O |
| CSE450  | Operation System                                 | 3  |      | P |
| CE450   | Fundamentals of Embedded Engineering             | 3  |      | P |
| Computer Science (select any 4 courses): 12 units     |  |    |      |   |
| CS500   | Advanced Structured Programming and Algorithms   | 3  |      | P |
| CS510   | Advanced Unix/Linux Programming                  | 3  |      | P |
| CS515   | Network Security                                 | 3  | 3    | O |
| CS520   | Data Modeling and Implementation                 | 3  |      | P |
| CS560   | Advanced Internet Programming and Design         | 3  | 1.5  | H |
| CS570   | Introduction to Machine Learning and Data Mining | 3  |      | P |
| Computer Engineering (select any 4 courses): 12 units |  |    |      |   |
| CE520   | Real-time Systems and Programming                | 3  | 1.5  | H |
| CE530   | Embedded Design in Network Environment           | 3  | 3    | O |
| CE535   | Embedded Software Design in Linux                | 3  |      | P |
| CE540   | Advanced Digital System Design with FPGA         | 3  | 3    | P |
| CE550   | Parallel Computer Architecture and Programming   | 3  |      | P |
| Capstone ( 1 course of the following): 3 units        |  |    |      |   |
| CSE580  | Independent Studies (1-4 units)                  | 3  | 1.5  | H |
| CSE590  | Capstone & Thesis                                | 3  | 1.5  | H |
| CSE595  | Internships                                      | 3  | 1.5  | P |
| TOTAL Units   |  | 51 | 16.5 |   |
| Prerequisites   |  |    |      |   |

|       |   |   |     |     |
|-------|---|---|-----|-----|
| CE300 | Introduction to Circuit Analysis          | 3 | 0/3 | P/O |
| CS300 | Program Design and Analysis in C Language | 3 | 0/3 | P/O |
| CS310 | Object-Oriented Programming C++           | 3 | 0/3 | P/O |
| CS320 | Introduction to Unix/Linux                | 3 | 0/3 | P/O |
| CS330 | Introduction to Networking                | 3 | 0/3 | P/O |
| CS340 | Java and Internet Applications            | 3 | 0/3 | P/O |

## Faculty for 2022 Semester

Dr. Chang, Shih Yu  
 Dr. Kao, Chi  
 Dr. Kim, John

## Course Descriptions for MSCSE

CSE430                      Computer                      3                      Semester                      Credits  
 Architecture                      Prerequisites: CS300

This course attempts to provide a deep understanding of the issues and challenges involved in designing and implementing modern computer systems. Our primary goal is to help students become more skilled in their use of computer systems, including the development of applications and system software. Users can benefit greatly from understanding how computer systems work, including their strengths and weaknesses. This is particularly true in developing applications where performance is an issue.

CSE450                      Operation  
 System

Operating system (OS) is a set of system software programs in a computer that regulate the ways application software programs use the computer hardware and the ways that users control the computer.

This class introduces the basic facilities provided in modern operating systems. Topics include: principles of operating system design and

implementation; concurrent processes; inter-process communication; job and process scheduling; deadlock handling; issues in memory management (virtual memory, segmentation, paging); and auxiliary storage management (file systems, directory structuring, protection mechanisms); performance issues; and case studies.

3 Semester Credits  
Prerequisites: CS30

### CE450 Fundamentals of Embedded Engineering

Embedded Systems are everywhere. Every time you look at your watch, answer the phone, take a picture, or turn on the TV you are interacting with an embedded system. Embedded systems are also found in cars, airplanes, and robots. Learning to design and program embedded systems is a critical skill that is necessary for many industry and scientific jobs.

In this course you will learn the basics of designing, interfacing, configuring, and programming embedded systems. We will make use of the Arduino platform, which is an inexpensive, popular

embedded system used by hobbyists, researchers, and in industry, to implement the techniques learned in class. By the end of the course you will have mastered the basics of embedded system design and programming. This course will help to prepare you for cutting edge careers in industry and research.

3 Semester Credits  
Prerequisites: CE300

### CS500 Advanced Structured Programming and Algorithms

The objective of the course is to teach students how to design, write, and analyze the performance of C/C++ programs that handle structured data and perform more complex tasks, typical of larger software projects. Students should acquire skills in using generic principles for data representation & manipulation with a view for efficiency, maintainability, and code-reuse. Successful students will, at the end of the course, be able to demonstrate analytical comprehension of concepts such as abstract data types (vectors, lists, deques, trees, etc.), generic programming techniques

(containers, adaptors, accessing data through interface, iterators, etc.), algorithms (sorting, using stacks and queues, tree exploration algorithms, etc.), and efficiency analysis (which data structures allow efficient interfaces to particular forms of data access, such as random vs. sequential data access or insertion). The students should be able to demonstrate similar skills in related implementation tasks in the C/C++ language, including extensive use of templates to allow for modularity and re-usability of code.

3 Semester Credits  
Prerequisites: CS310

### CS510 Advanced Unix/Linux Programming

This course is designed for students to gain fundamental knowledge of and hands-on experience with programming in the UNIX/Linux environment. Students will learn to program in C with UNIX/Linux system calls and other advanced topics such as the UNIX file system, process control, signals and inter-process communications. Students are required to do a term project with a substantial amount of

programming. Upon completion of this course, students should be able to develop real-world UNIX/Linux applications. Hands-on practice and projects are required

3 Semester Credits  
Prerequisites: CS320

### CS515 Network Security

This course is a study of key security issues and procedures in computer and mobile communication networks. Among the issues to be discussed are: the security of LANs, WANs, databases, and network operating systems; threats to computer networks through exploitation of network infrastructure design weaknesses; security flaws in the network infrastructure protocols; security of content in computer network services; risk assessment and security policies; and security in mobile communication networks. Procedures will include: networks intrusion detection and forensics technologies, cryptographic and authentication systems, capability and access control mechanisms, and new developments in Internet routing and transport protocols, secure mail, directory, and

multimedia multicast services. Current trends and research in security policies and technologies will also be discussed.

3 Semester Credits  
Prerequisites: CS330

CS520 Data Modeling and Implementation

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

3 Semester Credits  
Prerequisites: CS450

CS560 Advanced Internet Programming and Design

This course is designed to give the students an in-depth understanding of Java programming techniques. The

course focuses on advanced Java language features and packages which are essential for building a variety of application architectures. Topics include Java techniques of WAP, XML, JNI, thread, network programming, Servlet, JSP, JDBC, and internationalization.

3 Semester Credits  
Prerequisites: CS340

CS570 Introduction to Machine Learning and Data Mining

This course will provide a basic introduction to this dynamic and fast advancing field. Topics include the three basic branches in this field: (1) Supervised learning for prediction problems (learn to predict); (2) Unsupervised learning for clustering data and discovering interesting patterns from data (learn to understand); and (3) Reinforcement learning for learning to select actions based on positive and negative feedback (learn to act). It will have a special focus on the practical side --- students will not only learn various machine learning and data mining techniques, but also learn how to apply them to real problems in practice.

3 Semester Credits  
Prerequisites: CS500

### CE520 Real-time Systems and Programming

To introduce students to the fundamental problems, concepts, and approaches in the design and analysis of real-time systems. To study issues related to the design and analysis of systems with real-time constraints. The problem of ensuring such constraints is ultimately a scheduling problem, so much attention is devoted to such problems.

3 semester units Prerequisites:  
CSE450

### CE530 Embedded Design in Network Environment

The course is oriented toward software and systems engineers who wish to architect, develop and deploy mobile and cloud systems in which embedded computing plays a key part. The course compels thinking at the system level, with tradeoffs being made between data manipulation that should be done on coin-cell-powered devices and data

manipulation that should be done in large data centers.

3 semester units Prerequisites:  
CE450

### CE535 Embedded Software Design in Linux

The course introduces the participant to Linux Embedded OS. The course focuses on the OS structure. We will see the development environment and Tools the difference between kernel and user space, and embedded considerations. Linux system calls and library functions, how to use them, and their underlying mechanisms are introduced. The course deals with many facets of the Linux operating system, including: Linux kernel structure, I/O, Signals, Processes, Threads, and IPC.

3 semester units Prerequisites:  
CS320 and CE450

### CE540 Advanced Digital System Design with FPGA

This course covers the systematic design of advanced digital systems using field-programmable gate arrays (FPGAs). The emphasis is on

top-down design starting with a software application and translating it to high-level models using a hardware description language (such as VHDL or Verilog). The course will focus on design for high-performance computing applications using streaming architectures. We will first review in detail the basic building blocks of FPGA programming. Second, we focus on architecture, design methodologies, best design practices, and optimization techniques for performance (frequency, latency, area, power, etc.). Finally, we will cover testbench development, simulation for bit-true design verification, and synthesis of complete digital systems.

3 semester units Prerequisites:  
CE450 or equivalent HDL experience

### CE550 Parallel Computer Architecture and Programming

From smart phones, to multi-core CPUs and GPUs, to the world's largest supercomputers and web sites, parallel processing is ubiquitous in modern computing.

The goal of this course is to provide a deep understanding of the fundamental principles and engineering trade-offs involved in designing modern parallel computing systems as well as to teach parallel programming techniques necessary to effectively utilize these machines. Because writing good parallel programs requires an understanding of key machine performance characteristics, this course will cover both parallel hardware and software design.

Course themes include: (i) designing and writing parallel programs that scale effectively to large numbers of processors, (ii) understanding how parallel computers work (since this is very important in order to write fast and efficient parallel software), and (iii) thinking about efficiency (which is not equivalent to speed).

3 semester units Prerequisites:  
CS320 and CE450

### CSE580 Independent Studies (1-4 units)

#### Independent Studies

Independent study is reserved for rare circumstances in which a

student needs a specific course to graduate or progress timely. An independent study contract must be completed by the faculty member and the student and must specifically address the course objectives, expected outcomes, assignments to be completed, hours expected to be completed with the faculty, and hours expected to be completed independently. Independent study contracts must be approved by the Program Director.

3 Semester Credits  
Prerequisites: None

### CSE590 Capstone & Thesis

This capstone course is intended to integrate the knowledge and hands-on experience that the student has acquired from the foundation, core, and elective coursework required for the program in the course under the guidance of the course instructor. The instructor determines the course objectives and scope based on the computer science and engineering curriculum and technology trend. The student shall take the capstone course near the end of his/her program of study.

3 semester units Prerequisites:  
completed all foundation courses +  
at least six 500 courses

### CSE595 Internships

The student, site supervisor, and faculty supervisor will design an internship contract that includes roles and responsibilities, schedule, supervision format and frequency, required staff meetings, and client contact arrangements. At the conclusion of each quarter of internship, students are evaluated by the faculty supervisor in consultation with the site supervisor. The primary method of instruction for this course is field-based learning, augmented by face-to-face group supervision and online discussion board work.

Prerequisites courses: Approval by faculty

### CE300 Introduction to Circuit Analysis

Circuit laws and nomenclature, resistive circuits with DC sources, ideal operational amplifier, controlled sources, natural and complete response of simple circuits, steady-state sinusoidal analysis and power calculations.

3 Semester Credits  
Prerequisites: None

CS300 Program Design and Analysis in C Language

This course is an introduction to the concepts and methods of computer programming using C language. The course covers data types, expressions, control structures, functions, sequential files, arrays, pointers, strings, string library and ADTs. It also covers low level programming elements such as memory manipulations, pass-by reference pointers, structures and bit level manipulation

3 Semester Credits  
Prerequisites: None

CS310 Object-Oriented Programming C++

This course provides a comprehensive overview of the C++ programming language for programmers who are new to C++ and object-oriented programming. The course builds on existing programming skills and prepares students to participate in development activities and courses which use C++ as their programming language.

3 Semester Credits  
Prerequisites: None

CS320 Introduction to Unix/Linux

This is an introductory course in the Linux operating system. Students learn the basic Linux commands and utilities, including files, editors and shell scripting.

3 Semester Credits  
Prerequisites: None

CS330 Introduction to Networking

An introduction to the design and analysis of computer communication networks. Topics include application layer protocols, Internet protocols, network interfaces, local and wide area networks, wireless networks, bridging and routing, and current topics.

3 Semester Credits  
Prerequisites: None

CS340 Java and Internet Applications

This course is an introduction to the concepts and methods of computer programming with an emphasis on OOP (Object-Oriented Programming), using Java programming language. This

course also includes applets, GUI (graphical user interface), arrays lists, arrays, streams and exception handling.

3 Semester Credits

Prerequisites: None

## Master of Science in Traditional Chinese Medicine (MSTCM)

The Traditional Chinese Medicine program provides students with a thorough knowledge of traditional and modern meridian theory, including point location, functions, indications and treatment planning. The TCM curriculum courses includes comprehensive training in moxibustion, cupping, Guasha, and electrical stimulation. Clinical labs concentrate on accuracy needling methods, technique and precaution. The program is designed for students who want to know more about traditional Chinese medicine and how it helps our health. Students upon completion will be prepared to sit for the licensing exam administered by the California Board of Acupuncture.

WHITEWATER University of California (WUC), a Graduate School of Traditional Chinese Medicine, is dedicated to educating students to become exceptional practitioners, educators and researchers. Our Purpose WUC is dedicated to:

- Provide the highest level of professional education

in Traditional Chinese Medicine and integrative medicine in the U.S. and internationally.

- Develop highly-skilled TCM clinical practitioners, educators and researchers.
- Advance the practice of TCM as an independent medical modality through clinical practice, education and research.
- Encourage professional collaboration among TCM practitioners, faculty, patients, and other medical providers to transform the worldview of healthcare; to recognize TCM as a significant component of world medicine.
- Foster a professional environment for faculty, staff and students to promote academic excellence as well as personal growth and development.
- Provide exceptional TCM and integrative medicine patient care to the community through the

Five Branches Institute health centers.

- Educate the general public about the significant benefits of TCM healthcare through continuing education programs and community lectures.

### The Vision

Over the next 30 years, WUC will evolve into an international Institute and healthcare center, teaching and researching high-level TCM education in English and Chinese, and offering TCM healthcare in an integrative medicine environment throughout the U.S. and worldwide. TCM philosophy views medicine as a compassionate response to human suffering. We will embrace this philosophy by encouraging supportive and humanistic academic and healthcare environments. Our faculty members are chosen based not only on academic excellence but also on the passion they emanate while teaching and mentoring

students. Our students are chosen for academic competence as well as their compassion and commitment to serve others. Four trends will influence our vision over the next 30 years:

- An increasing number of patients will continue to seek highly qualified TCM practitioners as primary healthcare providers. TCM schools will continue to improve their programs to provide highly skilled TCM clinical practitioners to meet this growing demand.
- TCM universities in China and medical experts in the U.S. will continue to collaborate and share their expertise in TCM and Western medicine, a vital component for the advanced development of TCM doctoral programs and research.
- Scientists, researchers and medical institutions will continue to research the depth and efficacy of

TCM, resulting in greater acceptance of Chinese medicine among medical professionals and medical schools in the U.S.

- A greater demand for collaborative healthcare will evolve as healthcare professionals join together to address the population’s full health needs by educating one another about their work and collaborating to provide effective treatment, prevent disease and promote optimal wellbeing for patients.

### Master of Traditional Chinese Medicine Degree Program (MSTCM)

Students who have two rather than three years of undergraduate studies may enroll in the Master of Traditional Chinese Medicine (MSTCM) degree program, a four-year graduate professional degree program comprising 3450 hours in length and a total of 196 semester units. Enrollment on a part-time basis is available based on consideration and approval by the

Academic Dean and Admissions Director.

### Program Overview

Taught by highly accomplished faculty in TCM education, the curriculum is offered through eight academic and clinical departments, providing comprehensive instruction and practical clinical experience in the “five branches” of traditional Chinese medicine (Acupuncture, Herbology, Tuina Massage, Energetics and Chinese Dietary Medicine). The program emphasizes extensive clinical training, integrative Western medicine, and the latest TCM research.

### TCM Theory and Clinical Medicine

The TCM Theory curriculum provides you with a thorough knowledge of the language and theories of TCM’s unique, yet universal, approach to understanding health and the treatment of disease. Drawing from both classical and modern texts, the curriculum creates a solid framework for the application of clinical methods, including acupuncture and herbology.

The TCM Clinical Medicine curriculum expands on the knowledge learned from the courses in TCM Theory, Acupuncture, and Herbology. However, this knowledge alone is not enough to fully diagnose and treat disease. TCM Clinical Medicine provides you with advanced skills in diagnosing and treating disease in the specialized fields of TCM internal medicine, external medicine, gynecology, pediatrics, traumatology, and orthopedics. Training includes detailed instruction of herbal and acupuncture treatment plans for both common and complex diseases. These courses lay the foundation for your clinical practice.

### TCM Acupuncture

The TCM Acupuncture curriculum is divided into didactic and lab sections, emphasizing both the theoretical and practical aspects of acupuncture. TCM Acupuncture courses provide you with a thorough knowledge of traditional and modern meridian theory, including point location, functions, indications and treatment planning. The curriculum includes comprehensive training in moxibustion, cupping, Guasha, and

electrical stimulation. Clinical labs concentrate on accuracy, needling methods, technique and precautions.

### TCM Herbology

Chinese herbology is the world's most sophisticated medical herbal system. The TCM Herbology curriculum includes extensive training in the identification, categorization and clinical use of the traditional Chinese herbal pharmacopoeia. Six trimesters of in-depth herbology study provide you with a solid working knowledge of more than 500 individual herbs and 350 classical and modern formulas. Advanced courses instruct you how to modify and enhance classical formulas in response to specific variants in a patient's diagnosed condition. All herb courses are taught using the Pinyin names of herbs.

### Western Medicine

Modern practitioners of TCM must have a fundamental understanding of Western medicine to inform their TCM practice, and to effectively communicate with medical doctors and other healthcare professionals. Western Medicine studies are an integral part of the curriculum providing

knowledge of Western diagnosis and pharmaceuticals, necessary to make appropriate referrals and to provide the best care possible for your patients. Introduced to the basic methods of Western diagnosis, you will learn the fundamental vocabulary used in diagnostic analysis and the clinical methods used in Western medical approaches to disease. With this knowledge, you can become an active part of today's dynamic healthcare network.

### TCM Clinical Training

In-depth clinical training comprises approximately one-third of the Master's curriculum, preparing you to practice the theoretical knowledge you gained in the classroom. Throughout the program, starting in your first trimester, you will observe a faculty-practitioner diagnosing and treating patients. In your last year, you will diagnose and treat patients with acupuncture, Chinese herbs and other methods of the five branches, under the direct supervision of a faculty member. diagnosing and treating patients. In your last year, you will diagnose and treat patients with acupuncture, Chinese herbs and other methods of the five branches,

under the direct supervision of a faculty member.

Upon entering clinical training beginning from clinic 3 and higher, students are required to submit (1) health evaluation, (2) Hepatitis B vaccination and (3) Tuberculosis Test.

Health Evaluation. The course of study at WUC includes clinical training. In order to ensure the maintenance of safety precautions and a healthy environment in the WUC clinics, we require the completion of a Health Evaluation. This health evaluation must be signed by a qualified primary health care practitioner.

Hepatitis B Vaccination or Waiver Form. Due to possible occupational exposure to blood or other potentially infectious materials, we recommend receiving a Hepatitis B vaccination. A copy of this immunization record must be provided. If vaccination is declined, a waiver form must be signed.

Tuberculosis Test. Tuberculosis is a common, and often deadly infectious disease caused by mycobacterium. It usually attacks the lungs but can also affect other body systems. Tuberculosis is spread through the air, when

people who have the disease cough, sneeze or spit. To ensure the maintenance of safety precautions in the WUC clinic, we require all applicants to have a tuberculosis clearance prior to enrollment in the Master's program. This may be done through a PPD Skin Test or a QuantiFERON TB Gold Blood Test. Supporting documents—sent separately:

### MSTCM Licensure Requirements

Students wishing to practice acupuncture in California must first obtain a state license, which requires qualifying for and passing California's written examination. In order to qualify for California's examination, students must successfully complete one of the following:

- An educational and training program approved by the Board

- A tutorial program in the practice of acupuncture approved by the Board
- A foreign education training program that is equivalent to the curriculum required at a CAB approved school

Upon the successful completion of the MSTCM program, students will have met the California Acupuncture Board minimum licensing requirements and will be eligible to sit for the California 47 Acupuncture Licensing examination given by the California

Acupuncture Board. California Acupuncturists are licensed under the State Department of Consumer Affairs, Medical Board of California, and Acupuncture Board at 1747 N. Market Blvd, Suite 180; Sacramento, CA 95834. Phone: 916-515-5200; Fax: 916-928-2204.

## Program Outline for MSTCM

| Course Number | Course Name                         | Semester Lecture/Lab Hours | Total Clinical Hours | Total Hours | Total Credits |
|---------------|-------------------------------------|----------------------------|----------------------|-------------|---------------|
| CM500         | Fundamentals of TCM I               | 45                         |                      | 45          | 3             |
| CM505         | Fundamentals of TCM II              | 45                         |                      | 45          | 3             |
| CM510         | Chinese Medical Language            | 45                         |                      | 45          | 3             |
| CM515         | Zang Fu I                           | 30                         |                      | 30          | 2             |
| CM520         | Zang Fu II                          | 30                         |                      | 30          | 2             |
| CM525         | Herbology I                         | 60                         |                      | 60          | 4             |
| CM530         | Herbology II                        | 60                         |                      | 60          | 4             |
| CM535         | Herbal Pharmacology                 | 30                         |                      | 30          | 2             |
| CM540         | TCM Differential Diagnosis I        | 60                         |                      | 60          | 4             |
| CM545         | TCM Differential Diagnosis II       | 60                         |                      | 60          | 4             |
| CM550         | Research Methodology                | 15                         |                      | 15          | 1             |
| CM555         | TCM Eyes, Ears, Nose, Throat, Mouth | 15                         |                      | 15          | 1             |
| CM600         | TCM Herbal Formulas I               | 60                         |                      | 60          | 4             |
| CM605         | TCM Herbal Formulas II              | 60                         |                      | 60          | 4             |
| CM610         | Chinese Internal Medicine I         | 45                         |                      | 45          | 3             |
| CM615         | Chinese Internal Medicine II        | 45                         |                      | 45          | 3             |

|                      |  |                                   |                             |                    |                      |
|----------------------|--|-----------------------------------|-----------------------------|--------------------|----------------------|
| CM620                | TCM External Medicine                                | 30                                |                             | 30                 | 2                    |
| CM625                | TCM Pediatrics                                       | 15                                |                             | 15                 | 1                    |
| <b>Course Number</b> | <b>Course Name</b>                                   | <b>Semester Lecture/Lab Hours</b> | <b>Total Clinical Hours</b> | <b>Total Hours</b> | <b>Total Credits</b> |
| CM630                | TCM Dermatology                                      | 45                                |                             | 45                 | 3                    |
| CM635                | TCM Gynecology/Obstetrics                            | 45                                |                             | 45                 | 3                    |
| CM640                | TCM Traumatology & Orthopedics                       | 30                                |                             | 30                 | 2                    |
| CM645                | Classics: Nei Jing, Wen Bing, Jin Kui, Shang Han Lun | 60                                |                             | 60                 | 4                    |
| CM650                | Clinical Applications of TCM                         | 45                                |                             | 45                 | 3                    |
| CM655                | Final Review   | 60                                |                             | 60                 | 4                    |
| AP500                | Acupuncture I  | 60                                |                             | 60                 | 4                    |
| AP505                | Acupuncture II                                       | 60                                |                             | 60                 | 4                    |
| AP510                | Acupuncture III                                      | 45                                |                             | 45                 | 3                    |
| AP600                | Acupuncture IV                                       | 45                                |                             | 45                 | 3                    |
| AP605                | Acupuncture V  | 60                                |                             | 60                 | 4                    |
| AP610                | Acupuncture VI                                       | 60                                |                             | 60                 | 4                    |
| AP615                | Special Acupuncture Techniques                       | 60                                |                             | 60                 | 4                    |
| AP620                | TCM Tuina Massage                                    | 60                                |                             | 60                 | 4                    |
| WM500                | Biology  | 30                                |                             | 30                 | 2                    |
| WM505                | Human Anatomy  | 60                                |                             | 60                 | 4                    |

|                      |                                      |                                   |                             |                    |                      |
|----------------------|--------------------------------------|-----------------------------------|-----------------------------|--------------------|----------------------|
| WM510                | Human Physiology                     | 60                                |                             | 60                 | 4                    |
| WM515                | Chemistry                            | 45                                |                             | 45                 | 3                    |
| WM520                | Physics                              | 30                                |                             | 30                 | 2                    |
| WM525                | Patient Care I                       | 45                                |                             | 45                 | 3                    |
| WM530                | Patient Care II                      | 45                                |                             | 45                 | 3                    |
| <b>Course Number</b> | <b>Course Name</b>                   | <b>Semester Lecture/Lab Hours</b> | <b>Total Clinical Hours</b> | <b>Total Hours</b> | <b>Total Credits</b> |
| WM535                | Pathology & Pathophysiology          | 60                                |                             | 60                 | 4                    |
| WM540                | Western Medical Terminology          | 30                                |                             | 30                 | 2                    |
| WM545                | History of Medicine and TCM          | 15                                |                             | 15                 | 1                    |
| WM550                | Psychology                           | 30                                |                             | 30                 | 2                    |
| WM555                | Public Health                        | 30                                |                             | 30                 | 2                    |
| WM600                | Nutrition                            | 45                                |                             | 45                 | 3                    |
| WM605                | Qi Gong                              | 30                                |                             | 30                 | 2                    |
| WM610                | Tai Ji Quan                          | 30                                |                             | 30                 | 2                    |
| WM615                | Western Medical Science I            | 60                                |                             | 60                 | 4                    |
| WM620                | Western Medical Science II           | 45                                |                             | 45                 | 3                    |
| WM625                | Physical Examination & Lab Diagnosis | 60                                |                             | 60                 | 4                    |
| WM630                | Practice Management                  | 30                                |                             | 30                 | 2                    |
| WM635                | Western Pharmacology                 | 45                                |                             | 45                 | 3                    |
| WM640                | Intro to Medical Imaging Procedure   | 45                                |                             | 45                 | 3                    |
| WM645                | Professional Ethics                  | 15                                |                             | 15                 | 1                    |

|                      |                                     |                                   |                             |                    |                      |
|----------------------|-------------------------------------|-----------------------------------|-----------------------------|--------------------|----------------------|
| WM650                | Career Development                  | 60                                |                             | 60                 | 4                    |
| WM655                | Community Services                  | 15                                |                             | 15                 | 1                    |
| CL500                | Beginning Clinical Theater          |                                   | 45                          | 45                 | 1.5                  |
| CL505                | Clinical Theater                    |                                   | 45                          | 45                 | 1.5                  |
| CL510                | Clinical Competency I               |                                   | 3                           | 3                  | 0                    |
| <b>Course Number</b> | <b>Course Name</b>                  | <b>Semester Lecture/Lab Hours</b> | <b>Total Clinical Hours</b> | <b>Total Hours</b> | <b>Total Credits</b> |
| CL515                | Clinical Rounds                     |                                   | 90                          | 90                 | 3                    |
| CL600                | Clinical Competency II              |                                   | 3                           | 3                  | 0                    |
| CL605                | Clinical Internship Rounds          |                                   | 270                         | 270                | 9                    |
| CL610                | Internship Rounds Orientation       |                                   | 3                           | 3                  | 0                    |
| CL615                | Clinical Integrative Intern Theater |                                   | 45                          | 45                 | 1.5                  |
| CL620                | Clinic Competency III               |                                   | 3                           | 3                  | 0                    |
| CL625                | Clinical Grand Rounds               |                                   | 45                          | 45                 | 1.5                  |
| CL630                | Clinical Internship                 |                                   | 450                         | 450                | 15                   |
| CL635                | Internship Orientation              |                                   | 3                           | 3                  | 0                    |
| <b>MSTCM TOTAL</b>   |                                     | <b>2445</b>                       | <b>1005</b>                 | <b>3450</b>        | <b>196</b>           |

## Class Delivery for MSTCM

Total MSTCM program units: 195 units

Class Delivery Instruction:

- ❖ In person/face-to-face course: classes are taught in physical location, face-to-face. (P)
- ❖ Online course: classes are taught through Internet 100%. (O)
- ❖ Hybrid course: professors have the flexibility to adjust the schedule as long as the material is covered and half of the course is delivered in the traditional method (H)

| Course No. | Course Name  | Units total | Units online | Delivery |
|------------|--|-------------|--------------|----------|
| CM500      | Fundamentals of TCM I                                | 3           |              | P        |
| CM505      | Fundamentals of TCM II                               | 3           |              | P        |
| CM510      | Chinese Medical Language                             | 3           | 3            | O        |
| CM515      | Zang Fu I  | 2           | 1            | H        |
| CM520      | Zang Fu II   | 2           | 1            | H        |
| CM525      | Herbology I  | 4           |              | P        |
| CM530      | Herbology II   | 4           |              | P        |
| CM535      | Herbal Pharmacology                                  | 2           | 1            | H        |
| CM540      | TCM Differential Diagnosis I                         | 4           |              | P        |
| CM545      | TCM Differential Diagnosis II                        | 4           |              | P        |
| CM550      | Research Methodology                                 | 1           | 1            | O        |
| CM555      | TCM Eyes, Ears, Nose, Throat, Mouth                  | 1           | 1            | O        |
| CM600      | TCM Herbal Formulas I                                | 4           |              | P        |
| CM605      | TCM Herbal Formulas II                               | 4           |              | P        |
| CM610      | Chinese Internal Medicine I                          | 3           | 3            | O        |
| CM615      | Chinese Internal Medicine II                         | 3           | 3            | O        |
| CM620      | TCM External Medicine                                | 2           | 1            | H        |
| CM625      | TCM Pediatrics                                       | 1           | 1            | O        |
| CM630      | TCM Dermatology                                      | 3           | 3            | O        |
| CM635      | TCM Gynecology/Obstetrics                            | 3           | 3            | O        |
| CM640      | TCM Traumatology & Orthopedics                       | 2           |              | P        |
| CM645      | Classics: Nei Jing, Wen Bing, Jin Kui, Shang Han Lun | 4           | 2            | H        |
| CM650      | Clinical Applications of TCM                         | 3           | 1.5          | H        |
| CM655      | Final Review   | 4           | 2            | H        |
| AP500      | Acupuncture I  | 4           |              | P        |
| AP505      | Acupuncture II                                       | 4           |              | P        |
| AP510      | Acupuncture III                                      | 3           |              | P        |

|       |                                      |    |     |   |
|-------|--------------------------------------|----|-----|---|
| AP600 | Acupuncture IV                       | 3  |     | P |
| AP605 | Acupuncture V                        | 4  |     | P |
| AP610 | Acupuncture VI                       | 4  |     | P |
| AP615 | Special Acupuncture Techniques       | 4  |     | P |
| AP620 | TCM Tuina Massage                    | 4  |     | P |
| WM500 | Biology                              | 2  | 2   | O |
| WM505 | Human Anatomy                        | 4  | 2   | H |
| WM510 | Human Physiology                     | 4  | 2   | H |
| WM515 | Chemistry                            | 3  | 3   | O |
| WM520 | Physics                              | 2  | 2   | O |
| WM525 | Patient Care I                       | 3  | 1.5 | H |
| WM530 | Patient Care II                      | 3  | 1.5 | H |
| WM535 | Pathology & Pathophysiology          | 4  | 2   | H |
| WM540 | Western Medical Terminology          | 2  | 2   | O |
| WM545 | History of Medicine and TCM          | 1  | 1   | O |
| WM550 | Psychology                           | 2  | 2   | O |
| WM555 | Public Health                        | 2  | 2   | O |
| WM600 | Nutrition                            | 3  | 1.5 | H |
| WM605 | Qi Gong                              | 2  |     | P |
| WM610 | Tai Ji Quan                          | 2  |     | P |
| WM615 | Western Medical Science I            | 4  | 2   | H |
| WM620 | Western Medical Science II           | 3  | 3   | O |
| WM625 | Physical Examination & Lab Diagnosis | 4  | 2   | H |
| WM630 | Practice Management                  | 2  | 1   | H |
| WM635 | Western Pharmacology                 | 3  | 3   | O |
| WM640 | Intro to Medical Imaging Procedure   | 3  | 1.5 | H |
| WM645 | Professional Ethics                  | 1  | 1   | O |
| WM650 | Career Development                   | 4  | 4   | O |
| WM655 | Community Services                   | 1  |     | P |
| CL500 | Beginning Clinical Theater           | 2  |     | P |
| CL505 | Clinical Theater                     | 2  |     | P |
| CL510 | Clinical Competency I                | 0  |     | P |
| CL515 | Clinical Rounds                      | 3  |     | P |
| CL600 | Clinical Competency II               | 0  |     | P |
| CL605 | Clinical Internship Rounds           | 9  |     | P |
| CL610 | Internship Rounds Orientation        | 0  |     | P |
| CL615 | Clinical Integrative Intern Theater  | 2  |     | P |
| CL620 | Clinic Competency III                | 0  |     | P |
| CL625 | Clinical Grand Rounds                | 2  |     | P |
| CL630 | Clinical Internship                  | 15 |     | P |

|                |                        |     |      |   |
|----------------|------------------------|-----|------|---|
| CL635          | Internship Orientation | 0   |      | P |
| MSTCM<br>TOTAL |                        | 196 | 69.5 |   |

## Faculty for 2022 Semester

Dr Bahk Key  
 Dr Dai, Xingquan  
 Dr Huang, Yann haur  
 Dr Li, Rui  
 Dr Lien,Christina  
 Dr Lin, Chengyu  
 Dr Tien, Wei-I  
 Dr Tseng, Pamela  
 Dr Zhang, Li  
 Dr Zhu, Yanzhong  
 Pro Yu Yi-Ju  
 Pro Li, Rui  
 Pro Qi, Rongxia  
 Pro Zhou, Yifan

## Courses Descriptions for MSTCM

### MSTCM Core Requirements & Concentrations

CM500            3 Units/45 Hours

#### Fundamentals of TCM I

This course introduces Oriental medicine principles and theory. It includes TCM fundamental concept: Yin/Yang, five elements, organ theory. It covers the instruction of the vital substances, the concept and transformation of Qi, the functions of the Yin organs and the Yang organs, the causes of diseases, the diagnostic method, the pathology of full and empty

conditions, Yin-yang imbalance, and the Qi mechanism.

Prerequisites: None

CM505            3 Units/45 Hours

#### Fundamental of TCM II

This course covers a further introduction of Oriental medicine principles and theory and focuses on the knowledge of identification of patterns according to the eight principles, Qi-Blood-Body fluids, internal organs, pathogenic factors. It also covers the knowledge of identification of patterns according to the six stages, four levels, three

burners, the 12 channels, eight extraordinary vessels, and the five elements.

Prerequisites: None

CM510            3 Units/45 Hours

### Chinese Medical Language

This course introduces students to the basic Chinese terminology and characters useful in understanding traditional Asian medicine, both spoken and written, with an emphasis on pronunciation, grammar, and proper stroke techniques. Students are taught to recognize spoken and written vocabulary for the organ systems, the major disease patterns, the major diagnostic terms, the five elements, and the basic color and numerical characters. Upon completion of this course, the student will be able to recognize, pronounce, and write Pinyin translations for the basic Chinese medical concepts and terminologies.

Prerequisites: None

CM515            2 Units/30 Hours

### Zang Fu I

The first of a two-course series, Zang Fu I familiarizes students with simple pathology identification and differentiation according to the model of TCM internal medicine. Students learn the basic signs and symptoms for identifying Zang Fu patterns, utilizing the concepts of eight principles, vital substances, and the organ (Zang Fu) theory. Upon completion of this course, students will be able to differentiate and diagnose simple patterns of pathology and pathogenesis, in accordance to the Zang Fu Theory.

Prerequisites: None

CM520            2 Units/30 Hours

### Zang Fu II

The second in this two-course series to explore the diagnostic skills and knowledge for identifying complex pathological patterns of TCM internal medicine. Students gain an understanding of the complex patterns in Zang Fu diagnosis, including differentiation of etiology, root, branch, symptoms and environmental and congenital patterns that involves more than one organ system.

Students will also learn how to write and present case studies in a clear, precise, and professional manner.

Prerequisites: None

CM525 4 Units/60 Hours

### Herbology I

Chinese Herbology, also called Ben Cao (Materia Medica), is divided into two courses. Herbology I introduces the basic theories of Chinese herbal medicine and studies single herbs based on their categories, origin, taste, temperature, entering meridians, preparation, delivery methods, therapeutic functions, and contraindications.

Prerequisites: None

CM530 4 Units/60 Hours

### Herbology II

This course consists of Chinese herbal medicine principles and theory, especially the characters and functions of the most commonly used herbs and formulas, and their actions and indications, commentary, mechanisms of selected combinations, traditional contraindications, toxicity, nomenclature and preparation. This course shall also include some kinds of substances that calm the spirit, extinguish wind and stop tremors, for topic application, aromatic substances that open the orifices, and obsolete substances.

Prerequisites: None

CM535 2 Units/30 Hours

### Herbal Pharmacology

This course includes the Pharmacokinetics information about commonly used herbal medicine including the absorption, tissue distribution, elimination, and body fluid concentrations. It also includes therapeutic approaches of herbal products, their nutrition,

dietary and supplement prescription and counseling.

Prerequisites: completion of one of the following: CM525, CM530

CM540 4 Units/60 Hours

### TCM Differential Diagnosis I

This is the first of two courses in TCM diagnosis. This course introduces acupuncture and Oriental medicine diagnosis. It covers mainly the four methods of diagnosis in Oriental medicine with emphasis on tongue observation and pulse diagnosis. It also covers analyses of symptoms and signs of diseases.

Prerequisites: completion of CM500 or concurrent enrollment in CM505

CM545 4 Units/60 Hours

### TCM Differential Diagnosis II

This course introduces the knowledge of eight principles differentiation, Qi, blood, and body fluid differentiation, combination syndrome of Qi, and blood, differential of body fluid, etiology and identification of patterns according to etiology, and seven emotional factors. It also covers the principles of prevention and treatment of disease, identification of pattern according to pathogenic factors, differentiation of six

channels, four stages, Sanjiao syndrome.

Prerequisites: Completion of CM500 or concurrent enrollment in CM505

CM550 1 Unit/15 Hours

### Research Methodology

This course is designed to introduce knowledge and critique of research methods including basic concepts and techniques of collecting, organizing, analyzing data, writing reports and conducting evaluation. It also covers research and evidence based medicine, and knowledge of academic peer review process. The focus is gaining knowledge in research methods to apply later in a research project of one's own design and understand evidence-based medicine to determine efficacy of treatment and determine when treatments are not appropriate.

Prerequisites: None

CM555 1 Unit/15 Hours

TCM Eyes, Ears, Nose, Throat, Mouth

This course, an applied TCM clinical course, introduces the etiology, pathogenesis, differential diagnoses, clinical treatment and prevention of common disorders of the eye, ear, nose, throat and mouth. After completing this course, student will have learned how to treat common eye, ear, nose, throat, and mouth problems.

Prerequisites: Completion of CM540 or concurrent enrollment in CM545

CM600 4 Units/60 Hours

### TCM Herbal Formulas I

Herbal Formulas, one of the most important fundamental courses in traditional Chinese medicine, introduces the concept of herbal formulas and their clinical action on specific diseases, the selection of the proper herbs to make up a formula and the dosage of herbs in the formulas. Herbal Formulas is divided into two courses. Herbal Formulas I teaches the principles of herbal formulas and offers detailed studies on various classical formulas including their concept, composition, method of use, functions, indications,

contraindications, and a detailed explanation of the role for each constituent herb in the formula.

Prerequisites: completion of one of the following: CM525, CM530

CM605            4 Units/60 Hours

### TCM Herbal Formulas II

Herbal Formulas II teaches the remaining classical formulas including their concept, composition, method of use, functions, indications, contraindications, and a detailed explanation of the role for each constituent herb in the formula. After completing this course and Herbal Formulas I, students able to identify all the herbal formulas taught in the two classes and to prescribe and modify formulas to suit an individual patients' needs.

Prerequisites: completion of one of the following: CM525, CM530

CM610            3 Units/45 Hours

### Chinese Internal Medicine I

The is the first of two courses in Chinese Internal Medicine. These

classes present an overview of the etiology, pathology, differentiation and treatment of specific syndromes of the internal organ systems. Students will learn to identify specific patterns and symptoms associated with the pathologies, along with the treatment protocols and recommendations for treatment utilizing acupuncture, herbal medicine, and other TCM modalities. Chinese Internal Medicine I covers such topics concerned headache, dizziness, breathless, wheezing, asthma, Allergic rhinitis, cough, mental-emotional problems, insomnia, tinnitus, tiredness, chest painful obstructions syndrome epigastric pain, and hypochondrial pain.

Prerequisites: CM500/505

CM615            3 Units/45 Hours

### Chinese Internal Medicine II

The is the second of two courses in Chinese Internal Medicine. These classes present an overview of the etiology, pathology, differentiation and treatment of specific syndromes of the internal organ systems and eye organs. Students will learn to identify specific

patterns and symptoms associated with the pathologies, along with the treatment protocols and recommendations for treatment utilizing acupuncture, herbal medicine, and other TCM modalities.

Prerequisites: CM500/505

CM620            2 Units/30 Hours

#### TCM External Medicine

This course introduces the basic theories, knowledge and the treatment for TCM external medicine. It includes the etiology and pathology, differentiation, treatment, and rehabilitation and nursing principles of TCM surgical diseases. It also includes many different kinds of surgical diseases such as sore and ulcer, breast diseases, goiter, tumor and rock, dermatologic diseases, sexually transmitted diseases, anorectal diseases, urinary male reproductive system diseases, peripheral vascular diseases, and other surgical diseases.

Prerequisites: CM500/505

CM625            1 Unit/15 Hours

#### TCM Pediatrics

This is a clinic course in the study of Traditional Chinese Medical diagnosis methods and treatment strategies for children's diseases. This course presents concepts in the compatibility of physiology and pathology in children and its clinical application. It also provides students with the understanding of the special considerations needed for the diagnosis and treatment of children's diseases.

Prerequisites: CM500/505

CM620            3 Units/45 Hours

#### TCM Dermatology

This course presents an overview of the pathology, symptoms, diagnosis and treatment of skin disorders with an emphasis on psoriasis, acne, alopecia, eczema, warts, fungus infection, urticaria, zoster virus and dry skin. Students will learn the relevant terminology of TCM dermatology and how to treat skin disorders with Chinese herbal formulae and acupuncture.

Prerequisites: CM500/505

CM635            3 Units/45 Hours

## TCM Gynecology/Obstetrics

This course covers the diagnosis and treatment of abnormal menstruation, pregnancy complications, sterility, fibroid tumors and vaginal discharge, and presents case studies for discussion. Chinese medical gynecology is introduced. The menstrual cycle is described in order to optimize treatment based on differentiation of the phases of ovulation and menstruation. Disorders of the female reproductive system are described as well as Chinese medical treatment. Assessment and therapeutics are described in terms of qi, blood and body fluids, extraordinary channels, as well as Zang Fu organ differentiation. Pathologies are differentiated in terms of etiology, pattern of disharmony, treatment principle and acupuncture and herbal treatment.

Prerequisites: CM500/505

CM640            2 Units/30 Hours

## TCM Traumatology & Orthopedics

This course introduces the etiology, diagnosis, and treatment

of common diseases of the musculo-skeletal system in accordance to both TCM and Western medicine. Emphasis will be on the differentiation of bone and soft tissue injuries which are common in industry and sports (injuries, wounds, abrasions, sprains and contusions to the tendons, ligaments, muscles and joints). Students will learn to recognize red flags in orthopedics and make referrals. Students will be able to treat patients with acupuncture and herbs and perform essential orthopedic tests to evaluate the outcomes of the treatments.

Prerequisites: CM500/505

CM645            4 Units/60 Hours

Classics: Nei Jine, Wen Bing, Jin Kui, Shang Han Lun

Huang Di Nei Jing (“Yellow Emperor’s Internal medicine”) is a major early medical work in the history of Chinese medicine. This course introduces the basic Chinese medical theories as describe in the Huang Di Nei Jing. Students will better understand the theories and concepts of traditional Chinese

medicine, be able to set up a basic core system of differential diagnosis provide individual treatments and strengthen their clinical practice skills.

Wen Bing (“Febrile Disease”) is an ancient medical text that studies the theoretical and clinical rules governing the onset, development and treatment of febrile conditions. Students will come to understand the features of febrile disease, the pathological changes of Wei, Qi, Ying, Xue (blood), the methods of differential diagnosis and treatment, the mechanisms of the significance of inspecting the tongue in febrile illnesses.

Jin Kui Yao Lue (Prescriptions from the Golden Cabinet”) is one of the most important TCM classics. It contains many important herbal formulas from the early stages of the development of TCM and exemplifies the treatment of “diseases of miscellaneous origins.” After completing this course, student will have a better understanding of some of the traditional methods of diagnosis and treatment of miscellaneous disease and may apply this

knowledge to their future clinical practice.

Shang Han Lun (“Treatise on Exogenous Cold Disease”) is the first Chinese medical text that delineated systematically and completely the definition, etiology, pathogenesis, clinical manifestation, treatment principles, formula analysis and prognosis of disorders caused by exogenous Cold. With completion of this course, students understand clinical signs and symptoms, differential diagnosis and disease progress, with a viewpoint to integrating herbs and formulas according to principle and guidelines contained in this important text.

Prerequisites: completion of CM500 or CM 505 or concurrent enrollment in CM540

**CM650**            3 Units/45 Hours**Clinical Applications of TCM**

Clinical Application of TCM approaches the study of TCM through case studies. In this course, students will be presented with clinical cases for discussion and analysis. Using acquired knowledge through analysis of patients' history, symptoms and signs, students are expected to make correct differential diagnosis as well as treatment plans and prescriptions by using acupuncture, herbs, and other TCM modalities. Students will also acquire knowledge from the case studies to provide guidance to patients regarding herbal preparation, nutrition (Oriental and Western nutrition, dietary and supplements), instruction in the utilization of mechanical devices and counselling.

Prerequisites: CM500/505

**CM655**            4 Units/60 Hours**Final Review**

This course offers an overview for students preparing for graduation exams. It provides comprehensive preparation including in-depth

review and exam-taking strategies for the California Acupuncture Licensing Exam. It provides a review of the core materials of the whole MSTCM curriculum: acupuncture, herbology, TCM foundation and diagnosis, various TCM specialties including internal and external medicine, dermatology, traumatology and orthopedics, geriatrics, gynecology and obstetrics, pediatrics, ophthalmology and otolaryngology, family medicine, and emergency care.

Prerequisite: third year student

**AP500**            4 Units/60 Hours**Acupuncture I**

This course introduces the acupuncture principles and theory. It covers a brief history of acupuncture and Moxibustion, the knowledge of Yin-Yang, the Five Elements, the Zhang-Fu organs, Qi, blood and body fluid, the basic concepts of channels, collaterals, and acupuncture points.

Prerequisites: None

**AP505**            4 Units/60 Hours

## Acupuncture II

The course with the instruction of the acupuncture principles and theory. It covers the knowledge of the first eight of the twelve primary acupuncture meridians. The channels covered will include the lung, large intestine, stomach, spleen, heart, small intestine, urinary bladder, and kidney.

Prerequisites: None

AP510            3 Units/45 Hours

## Acupuncture III

This course is a detailed introduction to the theory of channel systems covering the Pericardium, Triple Energizer, Gall Bladder, and Liver. This course will also include the Governor Vessel and the Conception Vessel.

Prerequisites: completion of one of the following: AP 500. AP505

AP600            3 Units/45 Hours

## Acupuncture IV

This course is a detailed introduction to acupuncture techniques, etiology and pathogenesis, diagnostic methods,

differentiation of syndromes, acupuncture treatment, and CNT related requirements and regulations.

Prerequisites: completion of one of the following: AP 500. AP505

AP605            4 Units/60 Hours

## Acupuncture V

This course covers the categories of acupuncture points and their applications, surgical techniques, magnet and beats therapy, microsystems acupuncture, electro-stimulation, cold and heat therapy, including moxibustion, cupping, Gua Sha-Scraping technique, and ultrasound therapy. It also introduces adjunctive acupuncture procedures, including bleeding, cupping, dermal tacks, acupuncture micro therapies, including auricular and scalp therapy.

Prerequisites: completion of one of the following: AP 510. AP600

AP610            4 Units/60 Hours

## Acupuncture VI

This advanced Acupuncture course is an in-depth study of the principles of Acupuncture prescription development and treatment from Nei Jing to modern acupuncture and oriental medicine literature. The course includes a detailed study of clinical acupuncture treatment procedures for different specialties including, but not limited to, emergency care, family medicine, internal medicine such as Respiratory, Digestive, Urogenital, and Psychological diseases.

Prerequisites: completion of one of the following: AP 510. AP600

AP615            4 Units/60 Hours

### Special Acupuncture Techniques

This course includes two parts. The first part will focus on teaching proper clean technique in treating patients and proper usage of equipment in the clinic. Clean needle technique (CNT), OSHA requirements, and information regarding blood-borne illnesses will be taught. The second part will focus on various acupuncture techniques, including needling

techniques, moxibustion, cupping, accident prevention etc.

Prerequisites: AP510

AP620            4 Units/60 Hours

### TCM Tuina Massage

Tuina is a pillar of Traditional Asian Medicine and refers to a wide range of massage and hand manipulation techniques such as pushing, rolling, kneading, rubbing, scrubbing, grasping and pressing. Tuina manipulations are designed to correct a variety of physical problems, internal conditions, gynecological conditions, pediatric conditions and traumatic injuries.

Prerequisites: CM500/505

### General Education and Western Medication

WM500            2 Units/30 Hours

### Biology

This course covers the basics of the chemistry of life, molecular and cellular biology, structure and function of organisms, reproduction and development, genetics, evolution and ecology (the relations of organisms to each other and to their environment). This course, with emphasis on human biology, provides a solid

basis for further biomedical studies with knowledge of vocabulary, concepts, and skills.

Prerequisites: None

WM505            4 Units/60 Hours

### Human Anatomy

This course is a basic course of Western Medicine and Chinese Medicine, introducing to students the normal morphology and structure of tissues, organs and systems in human body in order to better understand other Western and Chinese course.

Prerequisites: None

WM510            4 Units/60 Hours

### Human Physiology

This course is a basic course of Western Medicine and Chinese Medicine, introducing to students how the body and its parts work or function in order to better understand other Western and Chinese courses.

Prerequisites: None

WM515            3 Units/45 Hours

## Chemistry

This introductory course explores various topics of inorganic chemistry including the periodic table of elements, atomic structure of matter, nuclear chemistry, molecular bonding, atomic quantum numbers and orbitals, equilibrium states, acid/base chemistry and thermodynamics. The basic organic chemistry of alkanes and unsaturated hydrocarbons will also be examined throughout the course.

Prerequisites: None

WM520                    2 Units/30 Hours

## Physics

Designed for health science students, this is an introductory course on physics with minimum calculations. It will conceptually explore various topics of physics, including: motions and forces of a body, properties of matter, heat, sound, light, and electricity and magnetism. Basic atomic and nuclear physics, as well as the theory of relativity will be introduced.

Prerequisites: None

WM525                    3 Units/45 Hours

## Patient Care I

Patient care I introduces the primary care responsibilities as well secondary and specialty care responsibilities for primary health care practitioners. General patient care includes treatment planning, continuity of care, referral and collaboration with other medical professionals, follow-up care, final review, functional outcome measurements, prognosis and future medical care. This course also covers the psychological assessment and proper counseling for patients with mental disorders

Prerequisites: None

WM 530                    3 Units/45 Hours

## Patient Care II

This course teaches students how to write a professional medical legal report and manage expert medical testimony and independent medical review, and also how to care for seriously ill patients and handle patient emergency issues. This course presents the detailed case management for workers compensation, car accidents, socialized medicine patients and other special cases. This course also

introduces to students the coding procedures for current procedural codes (CPT and ICD-10 diagnosis), the treatment contra-indications and complications, focusing on drug and herb interactions.

Prerequisites: None

and proper pronunciation of terms, emphasizing their clinical context. This course is foundational for the western sciences and allows for communication with other health care providers.

Prerequisites: None

WM535                    4 Units/60 Hours

### Pathology & Pathophysiology

This course presents a survey of the nature of disease and illness, including microbiology, immunology, psychopathology, and epidemiology. It introduces the knowledge of cell and tissue function, cell injury and cellular adaptations, structure of immune system, epidemiology and prevention, biological bases of psychopathology, psychological assessment and clinical judgment.

Prerequisites: None

WM540                    2 Units/30 Hours

### Western Medical Terminology

This course provides a working familiarity of common medical terminology used in western medicine, including the definitions, roots, prefixes, suffixes

## WM545 1 Unit/15 Hours

## History of Medicine and TCM

This course introduces the history of Medicine, and the history of Traditional Chinese Medicine (TCM) including the origin of TCM, the development of TCM in the Han dynasty, the North South division epoch, the Tang Dynasty, The Song Dynasty, the Jin-Yuan dynasty, the Ming dynasty, the Qing dynasty, and the recent status of TCM in both China and the world. This course shall also introduce modern acupuncture and Oriental medicine literature and the current research areas in TCM.

Prerequisites: None

## WM550 2 Units/30 Hours

## Psychology

This course is designed to assist students in acquiring the knowledge and skills necessary to evaluate and treat clients with mental disorders. The class introduces the psychotherapeutic diagnostic system (DSM IV-TR) and the vocabulary to empower practitioners to more effectively interact with western clinicians. The course covers suicide, psychosis, chemical dependency,

depression, anxiety and the psychopharmacology used in western medicine. Emphasis is placed on developing solid boundaries, interviewing and communication skills, and setting up a safe and trusting environment. The course presents an introduction to western counseling skills and also addresses eastern influences on counseling. Various modalities of psychotherapy are presented.

Prerequisites: None

## WM555 2 Units/30 Hours

## Public Health

This course presents an introduction and overview of public health and epidemiology, including the distribution and correlates of illness in the population and current efforts to prevent and control risk factors that contribute to morbidity and mortality. Additional topics include public health issues that face the primary care provider including TCM practitioners.

Prerequisites: None

## WM600 3 Units/45 Hours

## Nutrition

This course is designed to provide a basic understanding of the fundamentals of human nutrition and how excess or deficiency of essential nutrients affects our health throughout life. Students will learn digestion and assimilation, including useful assessment tools and lab tests, and how to counsel patients on developing a healthy diet. There will also be a discussion of vitamins and minerals, recommended intake, the role of diet in the various stages of the life cycle, the way chronic disease is influenced by excessive or deficient states, and the biovariability of needs among different patients. The course will cover special issues like food allergies, detoxification, and weight loss as well as possible nutritional approaches to illness commonly encountered in clinical practice.

Prerequisites: None

WM605                    3 Units/45 Hours

### Qi Gong

Qigong, or Vital Energy Skills, are the ancient Chinese methods of cultivating and using the vital energy in the body, representing the Chinese philosophy of the exercise-health connection.

Qigong is now successfully used in China for treating chronic diseases. In this practical introductory course, students learn to experience various Qigong exercises in an atmosphere of personal experimentation, with emphasis on the fundamentals of “reading” and “feeling” the Qi.

This course will enable students to become familiar with the theory, form and potential health benefits of Chinese therapeutic energetics.

Prerequisites: None

WM610                    2 Units/30 Hours

### Tai Ji Quan

Taijiquan is recognized as one of the fundamentals of good health. This course is a natural extension of the Qigong courses and introduces students to more advanced exercises and sets for health enhancement. This course is aimed at teaching exercises the student can master, and that are safe for a wide spectrum of conditions.

Prerequisites: None

## WM615                    4 Units/60 Hours

## Western Medicine Science I

This course presents an overview of the medical knowledge of the medical knowledge of the principles and practice of medicine and surgery, cardiovascular system, respiratory system, gastrointestinal system, hepatic, biliary and pancreatic systems, genitourinary system, and nervous system.

Prerequisites: completion of one of the following: WM 505. WM 510

## WM620                    3 Units/45 Hours

## Western Medicine Science II

This course presents an overview of the medical knowledge of the musculoskeletal system, dermatology and soft tissues, breast disorders, endocrine system, hematology and clinical immunology, nutritional and metabolic disorders, genetic syndromes, overdose, poisoning and addiction. It also includes a survey of dentistry, podiatry, nursing, naturopathy and homeopathy.

Prerequisites: completion of one of the following: WM 505. WM 510

## WM625                    4 Units/60 Hours

## Physical Examination &amp; Lab Diagnosis

This course introduces the techniques of history-taking and physical assessment according to the western clinical paradigm. This course covers the complete physical examinations of the skin, head, sense organs, chest, abdomen, as well as basic orthopedic and neurological tests. It also includes the knowledge of diagnostic imaging, radiological, and laboratory tests and incorporating the resulting data and reports.

Prerequisites: None

## WM630                    2 Units/30 Hours

## Practice Management

This course covers the business and management aspects of practicing acupuncture and Oriental Medicine in private clinic establishments. It includes record keeping, insurance billing and collection, California and Federal laws including HIPAA, OSHA, and Labor codes, safety management, running a successful acupuncture clinic, risk management, ethics, and

hygienic standards including clean needle techniques.

Prerequisites: None

WM635                    3 Units/45 Hours

### Western Pharmacology

This course introduces the basic concepts and pharmacological principles of western pharmaceuticals and their major categories. Topics include pharmacological distribution, metabolism, and excretion, and the mechanisms by which drugs produce their therapeutic effects. Course emphasis is on general principles that can be applied broadly to groups or categories of medications. Students learn the major classes of drugs and specific examples within each class, potential drug-drug and drug-herb interactions.

Prerequisites: None

WM640                    3 Units/45 Hours

### Introduction to Medical Imaging Procedure

An introductory imaging course for the TCM student. This course provides an overview of radiation

physics and protection, normal radiographic anatomy, common pathologies, radiologist reports and ordering imaging for diagnostic purposes. Areas of discussion include: X-Ray, CT, MRI, PET, Ultrasound and Nuclear Medicine.

Prerequisites: completion of one of the following: WM 505. WM 510

WM645                    1 Unit/15 Hours

### Professional Ethics

This course covers ethical and legal aspects in acupuncture and oriental medicine. It introduces code of ethics for acupuncturists, steps in making ethical decisions, ethics and peer review, and laws and regulations relating to the practice of acupuncture.

Prerequisites: None

WM650                    4 Units/60 Hours

Prerequisites: Internship level

### Career Development

The primary focus of our program is ensuring you are honing the knowledge of the theory and practice of Chinese medicine and become a confident and competent practitioner. In the western world, environment is also required from practitioner to be familiar with postgraduation options and learn to develop entrepreneurial skills.

Prerequisites: WM645

WM655                    1 Unit/15 Hours

### Community Services

This course is designed for students to enhance the school's commitment to provide community services to the public. The purpose is to increase public awareness and understanding of Traditional Chinese Medicine. Students attend and participate in a variety of community outreach projects organized by the school, such as community health fairs and health seminars. Students perform voluntary work for different community groups, such as senior adults, low-income and disadvantaged families.

## TCM Clinic Training

CL500                      1.5 Units/45  
Hours

### Beginning Clinical Theater

In Beginning Clinical Theater, newly enrolled students receive a comprehensive introduction and orientation to the clinic's protocols on patient care, safety, herb formula preparation and patient records. This is students' first opportunity to see how TCM theory and practice are combined. In each class, scheduled patients are interviewed, diagnosed and treated by faculty, as students observe. Following each patient's intake, diagnosis and treatment, a general forum discussion of the patient's case is conducted. Students begin learning professional conduct within this clinical setting: how to take a patient's medical history, and how to create and maintain patient records. Students observe all aspects of treating patients as a TCM professional, including diagnostic data gathering, syndrome identification, treatment planning, herb prescription formulation, and acupuncture needling techniques. Students also

participate in the preparation of herbal formulas.

Prerequisites: None

CL505                      1.5 Units/45  
Hours

### Clinical Theater

This class is a continuation of Beginning Clinical Theater. Conducted in a classroom setting, students will have the opportunity to see how TCM theory and practice are combined. In each class, scheduled patients are interviewed, diagnosed and treated by faculty as students observe. Following each patient's intake, diagnosis and treatment, a general forum-discussion of the patient's case is conducted. Students begin learning professional conduct within this clinical setting: how to take a patient's medical history, and how to create and maintain patient records. Students observe all aspects of treating patients as a TCM professional, including diagnostic data gathering, syndrome identification, treatment planning, herb prescription formulation, and acupuncture needling techniques. Students also participate in the preparation of herbal formulas.



In Clinical Internship Rounds, students advance to hands-on treatments in a clinical setting under the direct supervision of a licensed practitioner. A small, intimate group of students attend to the patient's intake and treatment with constant monitoring by a licensed faculty supervisor, who develops a diagnosis and treatment strategy. Students will learn to treat patients with a variety of TCM modalities, and prepare formulas or prescribe patent herbs, under the direct supervision of a licensed faculty supervisor. Clinical Internship Rounds is designed to provide a setting for the students to develop comprehensive clinical skills in preparation for Internship.

Prerequisites: CL515

CL610                      0    Units/3  
Hours

#### Internship Rounds Orientation

This course is an orientation to prepare students moving from purely observation to assisting faculty in the treatment of patients with acupuncture and Chinese herbal formula preparation in Intern Rounds.

Prerequisites: CL 5515

CL615                      1.5 Units/45  
Hours

#### Clinical Integrative Intern Theater

A member of the Western faculty and the TCM faculty supervise interns in this integrative setting. In rotating groups of three, interns will perform the history and relevant examination of a patient from both Western and Eastern perspectives and develop an assessment and plan from each perspective. The diagnosis and the plan will be evaluated and discussed. A second group of students will perform the Eastern treatment and carry out and make appropriate recommendations for the Western treatment with the exclusion of administering medications.

Prerequisites: CL 605

CL620                      0    Units/3  
Hours

#### Clinic Competency III

This third and last clinic competency exam confirms that a student is ready to greet, diagnose and treat patients with acupuncture

and Chinese herbal formulas following all clinic protocols and standards of professionalism. Passing this exam is a prerequisite for students advancing to the Senior Internship stage of clinical training.

Prerequisites: CL 605

CL625                    1.5 Unit/45 Hours

### Clinical Grand Rounds

In a group setting, Grand Rounds offers interns an opportunity to present their difficult cases to one or more senior TCM faculty for feedback and assistance. Interns present their patient's history, signs and symptoms, diagnoses and treatments, and discuss and explore the case with the faculty member and other interns in order to develop new approaches for the diagnosis and treatment of the patient.

Prerequisites: Current enrollment in CL600

CL630                    15

Units/450 Hours

### Clinical Internship

Clinical Internship is designed to simulate an actual clinical environment, in which students diagnose, treat and develop long-range treatment goals and plans for their patients. Interns work independently under a licensed clinical faculty supervisor who is there to answer questions and provide recommendations and support as needed. Clinical Internship imparts the ultimate clinical educational condition for students, in which autonomy with patients is supported by the guidance and wisdom of experienced licensed faculty members. Students will be able, upon licensure, to treat patients unsupervised with confidence and expertise.

Prerequisites: CL605

CL635                    0    Units/3  
Hours

### Internship Orientation

This course is an orientation for the clinical and professional protocols that students will follow in their

final stage of senior internship training.

Prerequisites: Current enrollment in CL630

## Certificate Programs

### Mode of Delivery

Certificate programs and continuing education courses are taught by distance education.

### Faculty for 2022 Semester

Dr Huang, Yann haur  
Dr Lau, Camilla

### English as a Second Language Program (ESL)

English as a Second Language is also called English as a Foreign Language (EFL). This is an English language study program for nonnative speakers. WUC's ESL program has small classes so that student receive individual attention from their teachers. Students study English and also participate in the cultural and social activities of the school and community where they study. The goal of the ESL program is to improve the students' level of English as well as to prepare them for college studies. The classes teach different language skills, depending on the students' English abilities, interests, and needs. There are three levels of the ESL program, Beginning, Intermediate, and Advanced. Each of the levels teach the following: conversational English, grammar, reading, listening, comprehension, writing, and vocabulary. Students may take each of the levels as many times as necessary to enable the student to pass the exam qualifying them to move to a more advanced level.

#### ESL Level I Beginning

Students with little or no knowledge or ability in speaking English will be placed in this course. Basic comprehension, conversational English,

grammar, reading, listening, writing, and vocabulary are mastered. 450 clock hours; 15 weeks; 30 hours a week

### ESL Level II Intermediate

Students with some knowledge or ability in speaking English will be placed in this course. Intermediate comprehension, conversational English, grammar, reading, listening, writing, and vocabulary are mastered. 450 clock hours; 15 weeks; 30 hours a week

### ESL Level III Advanced

Student with knowledge and limited ability in speaking English will be placed in this course. Advanced comprehension, conversational English, grammar, reading, listening, writing, and vocabulary are mastered. 450 clock hours; 15 weeks; 30 hours a week

General Information about the ESL program:

- ❖ Admissions & Qualifications:
  - ◆ Must held at least high school degrees or equivalents for admission. If you don't meet the requirements, consider returning high school or college (or equivalent) degrees from any U.S. accredited institutions.
  - ◆ High school (or above) courses transcripts and/or anticipated final grades) along with all supporting documents such as awarded diploma(s) must be submitted.
  - ◆ Study plan outlining previous education and experience. A photocopy of your educational transcripts and any other supporting documents.
- ❖ Students are administered a proficiency test during orientation which allows the instructors to better assist students' learning in WUC ESL program.
- ❖ Class Schedule:
  - ◆ The WUC ESL program each Level is a 15 weeks of class meetings.
  - ◆ Monday - Friday 8:30 - 3:30
    - Monday - Thursday: Morning (reading, writing,

- grammar) and Afternoon (listening & speaking)
- Friday: Field Trips. Field Trips Fridays are designed to help students experience American culture and practice what they learned in class. This session tries to incorporate into classroom grades and are subject to change based upon individual teachers.

### Schedule of classes:

| Time/Date        | Monday                                       | Tuesday                                      | Wednesday                                    | Thursday                                     | Friday         |
|------------------|--|--|--|--|----------------|
| 8:30-11:30       | Reading,<br>Writing,<br>Grammar<br>(R, W, G) | Reading,<br>Writing,<br>Grammar<br>(R, W, G) | Reading,<br>Writing,<br>Grammar<br>(R, W, G) | Reading,<br>Writing,<br>Grammar<br>(R, W, G) | Field<br>Trips |
| 11:30 - 12:30    | Lunch  | Lunch  | Lunch  | Lunch  |                |
| 12:30 -<br>01:30 | Listening<br>&<br>Speaking                   | Listening<br>&<br>Speaking                   | Listening &<br>Speaking                      | Listening<br>&<br>Speaking                   |                |
| 01:30 -<br>02:30 |  |  |  |  |                |
| 02:30 -<br>03:30 |  |  |  |  |                |

### Program Length:

- 15 weeks; 30 hours a week; total of 450 clock hours

### TOEFL

This program covers the TOEFL test-taking skills and the contents of the TOEFL exam. This includes question interpretations, analyzing strategy, time management, reading comprehension, grammar, and essay writing. During the course, the students' progress will be analyzed to identify areas of strength and areas that need more attention.

### Admissions Requirements:

- Must have proof of high school graduation or equivalent by providing transcripts or a diploma.
- Placement test that includes Initial Diagnostic Assessment, Customized Learning Plan to determine the skills and strategies need to attain better results from the TOEFL exam.

Class Schedule:

- Monday – Friday 8:30 – 3:30

Program Length:

- 15 weeks; 30 hours a week; total of 450 clock hours

## Certification Programs for Continuing Education

The following programs are designed to prepare students to pass certification exams and to provide continuing education for those in the field. Students must possess a high school diploma or GED and provide proof to the Institute prior to starting classes. These are standalone programs.

| Program                         | Certification Exam              | SOC or CIP Codes |
|---------------------------------|---------------------------------|------------------|
| Database Management             | Oracle Database Administrator   | SOC 15-1254      |
| Java Programming                | Java SE Programmer I (Oracle)   | SOC 15-1251      |
| Web Application and Development | CIM Certified Web Developer     | SOC 15-1254      |
| TCM Herbology                   | Chinese Herbology Certification | CIP 51.3302      |

### Certificate in Database Management

Database Management provides the foundation you need for a career in database development, data warehousing, or business intelligence, as well as for the entire Data Warehousing for Business Intelligence specialization. In this course, you will create relational databases, write SQL statements to extract information to satisfy business reporting requests, create entity relationship diagrams (ERDs) to design databases, and analyze table designs for excessive redundancy.

As you develop these skills, you will use either Oracle or MySQL to execute SQL statements and a database diagramming tool such as the ER Assistant to create ERDs. This course is designed to ensure a common foundation for specialization learners. Everyone taking the course will be capable of writing SQL statements in Oracle or MySQL and of taking the Oracle Certification exam.

A range of education technology appropriate to database management learning and teaching are readily available to students. Such equipment includes:

- computer and printer facilities with internet access
- data projector
- audio players
- overhead projector
- interactive whiteboard
- self-access technology resources
- bookshelves.

The Learning Objective : Pass the Oracle Database Administrator exam.

### Certificate in Java Programming

Java is widely used programming language expressly designed for use in the distributed environment of the internet. Also, it is the most popular programming language for Android smartphone applications and is among the most favored for edge device and internet for development. Once completed, student will have the knowledge to take the Java SE Programmer I certificate exam offered by the Oracle corporation. The Learning Objective is: Pass the Java SE Programmer I Certification.

### Certificate in Web Application and Development

This course will give you the basic background, terminology and

fundamental concepts that you need to understand in order to build modern full stack web applications. A full stack web developer is familiar with each "layer" of the software technologies involved in a web application, including data modeling and database technologies, the web server environment and middleware components, network protocols, the user interface and basic visual design and user interaction concepts.

The student starts by learning the major components of web application architectures, along with the fundamental design patterns and philosophies that are used to organize them. You will build and continually refine a fully functional full-stack web application as you progress through the modules in this course. Along the way you are exposed to agile software development practices, numerous tools that software engineers are expected to know how to use with a modern web application development framework.

A range of education technology appropriate to database management learning and teaching should be readily available to

teachers and students. Such equipment includes:

- computer and printer facilities with internet access
- data projector
- audio players
- overhead projector
- interactive whiteboard
- self-access technology resources

The Learning Objective is: Pass the CIM Certified Web Developer exam.

### Certificate in TCM Herbology

Chinese herbology is the world's most sophisticated medical herbal system. The TCM Herbology includes extensive training in the identification, categorization and clinical use of the traditional Chinese herbal pharmacopoeia. The in-depth herbology study provide you with a solid working knowledge of more than 400 individual herbs and more than 350 classical and modern formulas. Advanced courses instruct you how to modify and enhance classical formulas in response to specific variants in a patient's diagnosed condition. All herb courses are taught using the Pinyin names of herbs.

The Learning Objective is: Pass the Chinese Herbology Certification exam.

### Continuing Education Units for 94874(D)(2) CEU

#### Ying, Yang, & Nei Jing

This is a continuing education program for California Licensed Acupuncturists and Traditional Chinese Medicine practitioners. After completing this course, students will be able to: (1) understand Ying-Yang theory framework and understand the fundamental principles of Huangdi Nei Jing, (2) learn the origin of Ying-Yang theory from Nij Jing and, from the Nei Jing perspective, how the universe/nature energy affects the human body, (3) apply and adopt proper acupuncture points to treat patients based on the calculations and adoptions of Qi movement of celestial bodies based on the Nei Jjing theory. 10 clock hours; 1 CEU is awarded. Approved by the California Acupuncture Board.

## Governance

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The administration of WHITEWATER University is committed to excellence in all aspects of the institution. Along with an enthusiasm for working with adult learners, Whitewater's administrators having many years of experience to designing and delivering higher education programs.

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- **Ling Shu Zhen Yi Ji Cheng, "The True Meaning of the Ling Shu Collection"** 靈樞真意集成 (2013)
- **Ben Shu Zhen Jiu, "Ben Shu Acupuncture"** 本俞針灸靈樞經學用解難 (2014 )
- **Shen Nong Ben Cao Jing Jue Wu Zhi Lu, "Journey Through The Marvecal Farm Herb Classic"** 神農本草經覺悟之旅 (2015)
- **Zhong Yi Jue Wu Yi Yan, "Understand TCM in one Sanchense"** 中醫覺悟一言 (2016)
- **Xue Zhi Dao, "Daoist of acupuncture points"** 穴之道 (2018)
- **Zui Quan Zui Shi Yong de Xiao Pian Fang, "Mostly**

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