

**KAPI'OLANI COMMUNITY COLLEGE  
PROGRAM REVIEW**

**MEDICAL LABORATORY TECHNICIAN  
2006**

*Based on data for Fall 2003 through Spring 2006*

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## **Mission Statement 2003-2010**

Approved October 7, 2002 by KCC Faculty Senate

Kapi'olani Community College...

- is a gathering place where Hawai'i's cultural diversity is celebrated, championed and reflected in the students, faculty, staff, administration and curriculum.
- is a nurturing workplace of choice for strong and caring faculty, staff, and administrators committed to a shared vision and set of values.
- strives to be the first choice for education and training for Hawai'i's people.
- provides open access, and promotes students' progress, learning and success with low tuition and high quality instructional programs, student development and support services, and selective areas of excellence and emphasis.
- prepares students to meet rigorous baccalaureate requirements and personal enrichment goals by offering a high quality liberal arts program.
- prepares students to meet rigorous employment and career standards by offering 21st century career programs.
- prepares students for lives of ethical, responsible community involvement by offering opportunities for increased civic engagement.
- leads locally, nationally and internationally in the development of integrated international education through global collaborations.
- uses human, physical, technological and financial resources effectively and efficiently to achieve ambitious educational goals.
- builds partnerships within the University and with other educational, governmental, business, and non-profit organizations to support improved learning from preschool through college and lifelong.
- uses cycles of qualitative and quantitative assessment to document degrees of progress in achieving college goals and objectives.

The mission of the Health Education Unit is to develop and deliver student-centered health career programs that employ industry standards through partnerships with the healthcare community by:

- offering credit and non-credit programs to provide competent and qualified personnel to meet the needs of the healthcare industry in Hawaii,
- providing quality learning opportunities for maintaining worker competence and career mobility in a rapidly evolving healthcare field, and
- delivering friendly, courteous, individualized and student-centered instructional and related support services that promote the likelihood of student success.

## **Part I. Executive Summary of Program Status**

This is the first report of the newly developed three-year program review. There are no recommendations from previous reports to discuss at this time.

## **Part II. Program Description**

### DESCRIPTION

The Medical Laboratory Technician (MLT) Program is one of eight programs in the Health Sciences Department. The program staff include two full-time faculty, with one designated as program director and lecturers as needed. The program is competency-based and offers an Associate in Science degree in MLT and a non-credit Lab Assistant/Phlebotomist Program. Both programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

The mission of the MLT program within the health sciences division is to develop and deliver one of the student-centered health education programs that employ industry standards through partnerships with the healthcare community by:

- offering credit and non-credit programs to provide competent and qualified personnel to meet the needs of the healthcare industry in Hawaii,
- providing quality learning opportunities for maintaining worker competence and career mobility in a rapidly evolving healthcare field, and
- delivering friendly, courteous, individualized and student-centered instructional and related support services that promote the likelihood of student success.

### GOALS

- Goal 1: To prepare graduates for entry level clinical laboratory Technician positions.
- Goal 2: To provide qualified Medical Laboratory Technicians for clinical laboratories in the state of Hawai'i.
- Goal 3: To maintain an up-to-date curriculum that serves the needs of the students and the community.
- Goal 4: To serve as an educational resource for the laboratory community.

**For the rest of the Program Description, please see the Appendices.**

### Part III. Quantitative Indicators for Program Review

#### MEDICAL LAB TECHICIAN

##### *Demand*

| <b>Enrollment / Admission</b>    | S05   | S04   | S03   | S04-S05<br>Diff | %<br>Change |
|----------------------------------|-------|-------|-------|-----------------|-------------|
| Number of majors                 | 27    | 26    | 22    | 1               | 3.85        |
| Number of new majors             | 16    | 13    | 10    | 3               | 23.08       |
| Number of applicants             | 19    | 33    | 20    | -14             | -42.42      |
| Number of FTE majors             | 13.42 | 26.83 | 19.33 | -13.41          | -49.98      |
| Number of FTE faculty            | 1.87  | 2.20  | 1.80  | -0.33           | -15.00      |
| Number of student semester hours | 161   | 322   | 232   | -161            | -50.00      |

| <b>Employment Opportunities</b> |       |
|---------------------------------|-------|
| Current positions               | 1,040 |
| Projected positions             | 1,180 |
| Average openings per year       | 40    |

##### *Effectiveness*

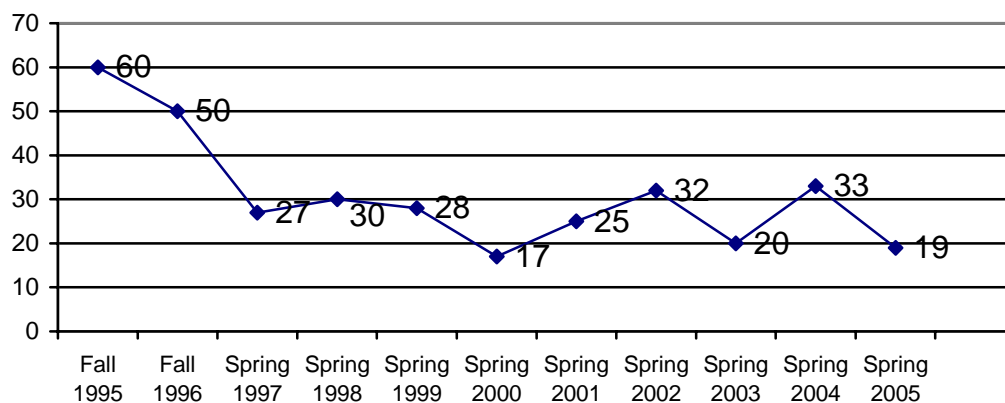
| <b>Satisfaction</b> |      |
|---------------------|------|
| Students            | 3.50 |
| Employers           | 3.70 |

| <b>Program</b>                        | Cohort<br>03-05 | Cohort 02<br>04 | Cohort<br>00-03 | S01-S02<br>Diff | %<br>Change |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-------------|
| Pass rate on license/certificate exam | 100.00%         | 100.00%         | 100.00%         | 0.00            | 0.00        |
| Cohort graduation rate                | 50.00%          | 50.00%          | 87.50%          | 0.00            | 0.00        |
| Number of degrees                     | 5               | 7               | 7               | -2              | -28.57      |

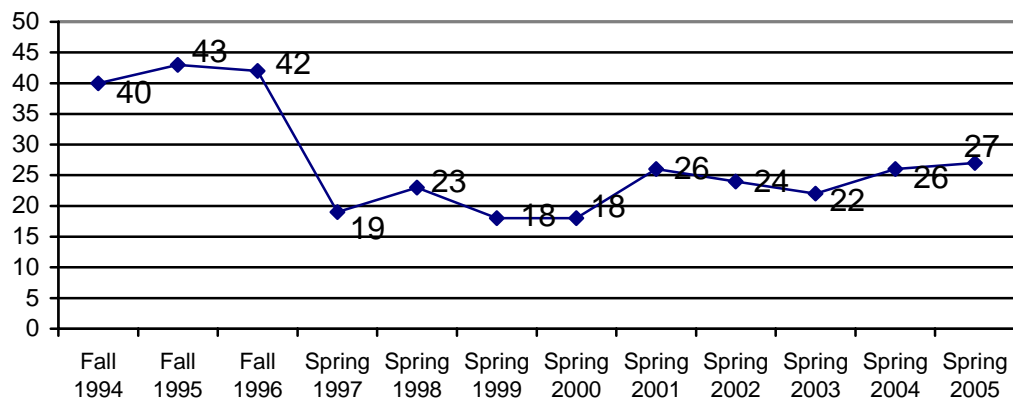
##### *Efficiency*

| <b>Program</b>               | S05    | S04    | S03    | S04-S05<br>Diff | %<br>Change |
|------------------------------|--------|--------|--------|-----------------|-------------|
| FTE students per FTE faculty | 7.18   | 12.20  | 10.74  | -5.02           | -41.15      |
| Average class size           | 8.73   | 10.31  | 7.20   | -1.58           | -15.32      |
| Occupancy rate               | 54.86% | 65.69% | 45.00% | -10.83          | -16.49      |

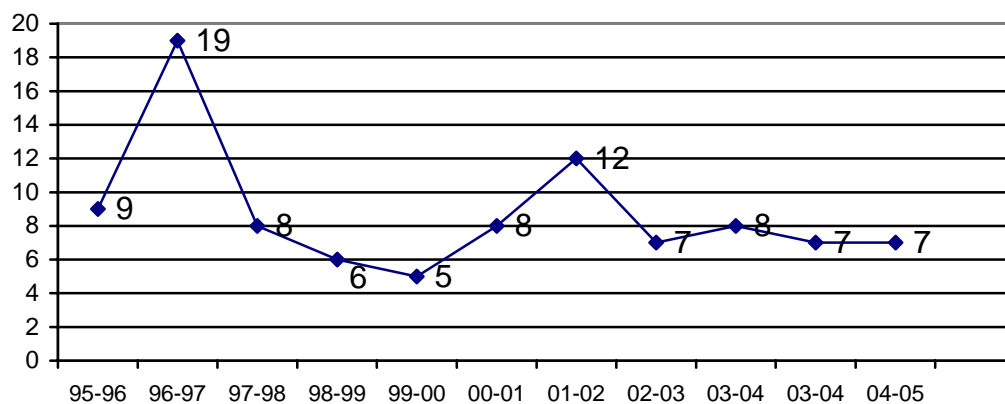
## Applications



## Majors



## Graduation



**More Data for Program Review  
MEDICAL LABORATORY TECHNICIAN**

***Demand***

| <b>Enrollment</b>  | AY '05 - '06 | AY '04 - '05 | AY '03 - '04 |
|--|--------------|--------------|--------------|
| Semester Hours for Program Majors in All Program Classes | 430          | 324          | 332          |
| Student Semester Hours for All Program Classes           | 541          | 407          | 423          |
| Number of Classes Taught                                 | 18           | 27           | 22           |
| Semester Hours Taught                                    | 47           | 64           | 48           |

***Effectiveness***

| <b>Program</b>   | AY '05 - '06 | AY '04 - '05 | AY '03 - '04 |
|--|--------------|--------------|--------------|
| Persistence of Majors (Fall to Spring)                 | 54.17%       | 68.97%       | 59.46%       |
| Transfer Rates (for Fall Cohorts)                      | -            | -            | -            |
| Success at Another UH 4-Year Campus (for Fall Cohorts) |              |              |              |

| MKT --Perkins Core Indicators | 1P1          | 1P2          | 2P1          | 3P1          | 3P2          | 4P1 | 4P2 |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|-----|-----|
| 2002-2003                     | <b>52.94</b> | <b>84.21</b> | <b>15.79</b> | <b>33.33</b> | 100.00       |     |     |
| 2003-2004                     | <b>66.67</b> | 94.12        | <b>23.53</b> | <b>66.67</b> | <b>50.00</b> |     |     |
| 2004-2005                     | <b>80.00</b> | 93.10        | <b>31.03</b> | 75.00        | <b>84.33</b> |     |     |

| MLT --Perkins Core Indicators | 1P1          | 1P2          | 2P1   | 3P1          | 3P2    | 4P1         | 4P2   |
|-------------------------------|--------------|--------------|-------|--------------|--------|-------------|-------|
| 2002-2003                     | 100.00       | <b>87.50</b> | 62.50 | 90.00        | 100.00 | <b>7.69</b> | 0     |
| 2003-2004                     | <b>77.78</b> | <b>80.00</b> | 40.00 | 100.00       | 100.00 | 25.00       | 25.00 |
| 2004-2005                     | 88.89        | <b>70.00</b> | 60.00 | <b>25.00</b> | 100.00 | 19.36       | 16.67 |

***Efficiency***

| <b>Program</b>                         | AY '05 - '06 | AY '04 - '05 | AY '03 - '04 |
|--|--------------|--------------|--------------|
| Semester Hours Taught by Lecturers     | 10           | 6            | 14           |
| Percent of Classes Taught by Lecturers | 16.67%       | 11.11%       | 31.82%       |
| FTE Workload                           | 1.74         | 2.37         | 1.78         |

## Part IV. Curriculum Review and Revision

| Course                                      | Last update | Next update |
|---|-------------|-------------|
| MLT 100, Introduction to the Clinical Lab   | 1999        | 2006        |
| MLT 108, Hematology                         | 2005        | 2010        |
| MLT 118, Body Fluids                        | 2005        | 2010        |
| MLT 112, Clinical Biochemistry I            | 2005        | 2010        |
| MLT 107, Clinical Microbiology I            | 2006        | 2011        |
| MLT 100B, Phlebotomy Practicum              | 1999        | 2006        |
| MLT 212, Clinical Chemistry II              | 2006        | 2011        |
| MLT 204, Immunohematology                   | 1998        | 2006        |
| MLT 207, Clinical Microbiology II           | 2006        | 2011        |
| MLT 211, Clinical Microscopy                | 1999        | 2006        |
| MLT 240, Seminar                            | 2006        | 2011        |
| MLT 242B, Clinical Rotation II-Blood Bank   | 2006        | 2011        |
| MLT 242C, Clinical Rotation II-Chemistry    | 2006        | 2011        |
| MLT 242D, Clinical Rotation II-Microbiology | 2006        | 2011        |
| MLT 242E, Clinical Rotation II-Hematology   | 2005        | 2010        |

## Part IV. Assessment Results Chart for Programs SLOs

The Self-Study for the MLT program will be completed by July 2007. The document will address the 20 standards set by the National Accrediting Agency for Clinical Laboratory Sciences. The graduates, advisory committee and the employers will be surveyed to determine if the outcomes of the student learning meet the needs of the graduates and the community. Program evaluation (Student Learning Outcomes are assessed in the following Standards:

18. The program has a documented, formal evaluation plan for continually and systematically reviewing the effectiveness of the program.

| Evaluation includes feedback from: |                        | Frequency:         |
|------------------------------------|------------------------|--------------------|
| <input type="checkbox"/>           | Students               | <u>Each module</u> |
| <input type="checkbox"/>           | Employers of Graduates | <u>annual</u>      |
| <input type="checkbox"/>           | Faculty                | <u>ongoing</u>     |
| <input type="checkbox"/>           | Graduates              | <u>annual</u>      |
| <input type="checkbox"/>           | Exit or Final Exams    | <u>annual</u>      |
| <input type="checkbox"/>           | Advisory Committee     | <u>biannual</u>    |
| <input type="checkbox"/>           | Other: _____           | _____              |

19. Outcomes measures from the last three active years are considered in the program evaluation.
20. A review of graduation rates is:  
 Documented  
 Analyzed  
 Used in the program evaluation

A review of employment rates is:  
Documented  
Analyzed  
Used in the program evaluation

21. The results of program evaluations are:  
Documented  
Reflected in ongoing curriculum development and program modification  
Followed by an analysis of the effectiveness of any changes implemented

## Part V. Analysis of Program

### ANALYSIS

The MLT program continues to graduate students who are fully prepared to work in the clinical laboratories and to pass national certification exams. Employers are satisfied with the quality of graduates and would like to see more students entering and graduating from the MLT program. The limiting factor is the number of clinical sites for students in their final semester. Additional sites have been recruited at the same time that other sites became unavailable – a zero sum gain. In 2005, there was a full class of 16 admitted to the program with two students on the waiting list. Two did not complete the prerequisites with a C or better and two withdrew before registering. Only one student from the waiting list elected to attend the Spring program. The apparent drop in applicants is due to the increased advising of students who did not meet the prerequisites to apply to qualify for program acceptance. The system was changed in 2004, so that only completed program application packets were processed for Spring 2005 and 2006. Prior to these years, all applicants were counted.

The national norm for completion of MLT programs is approximately 50%. Most programs are satisfied to have only a 40% attrition.

In order to work in Hawaii, MLTs must be licensed, which depends on their passing the national certification exam. All graduates sat for and passed the exam. Five of the seven graduates are working in local laboratories. One is staying home with a new baby; the other has recently begun a job search (as of March 2006).

The MLT program is fully accredited through 2007 and is meeting its stated goals of providing qualified graduates and maintaining an up to date curriculum.

All data elements are within acceptable limits, except for class occupancy, which was an anomaly for 2004-05.

## Part VI. Action Plan

The MLT and Phlebotomy programs are due for reaccreditation and approval in 2008 and the combined Self-Study is due July 1, 2007. 2006-07 will be a time to review all aspects of the

program to determine if the programs meet the standards set by the National Accrediting Agency for Clinical Laboratory Sciences.

The number of QUALIFIED applicants to the MLT program (those meeting the prerequisite science courses) has increased in the last year. Information about the MLT program will be distributed to all of the science faculty. The MLT program faculty will continue to work with the counseling staff in presenting the program to the visiting high school students. The MLT program will continue to be a part of the presentation at the Career and College Fair staffed by volunteers from the American Society for Clinical Laboratory Science – Hawaii.

The graduating class of 2006 was the first class to participate in the revised modular MLT program. There were fewer students opting to extend the program to three years, as had been an increasing pattern. This modular system will continue to be monitored to determine if it decreases the attrition. It may also show that there will be an increase in Perkins indicator of completion of technical classes.

## **Part VII. Budget implications**

The Program Director will be assigned 3 credits to prepare the Self-Study and this will require faculty to cover the released course Fall 2006. The focus of the review will be on the curriculum and on the quality of the laboratory classes as related to Student Learning Outcomes and safety. This may require equipment repair or replacement to assure compliance with accreditation standards. Major pieces of equipment that are over 20 years old and that have undergone extensive repairs are:

Autoclave – This is also needed for the MEDAS and Respiratory Care programs for disposal of biohazards generated in their classes. Estimates for a new autoclave are approximately \$15,000

Laboratory Refrigerators – One of the current refrigerators was purchased in 1984, the other is at least 5 years older. These safety refrigerators for storage of laboratory supplies cost approximately \$5000 each.

Clinical Chemistry instruments are becoming increasingly outdated and newer smaller instruments will cost \$2000 to \$5000 depending upon degree of automation.

A Professional Fee of \$200 per semester, beginning Fall 06 will provide funding for equipment replacement and repairs and supplies.

## Appendix Data Elements

### MEDICAL LAB TECHNICIAN

Demand

#### Enrollment/Admission

**Number of Majors** -- The number of students who are accepted as majors into the program during [Spring 2005](#) as of [March 2006](#).

Source: [SCT Datamart](#)

**Number of New Majors** -- The number of new students who are registered for 1 semester hour or more and who have been accepted into the program during [Fall 2005](#) plus the number of continuing students who are registered for 1 semester hour or more and who change their major to this one as of [March 2006](#).

Source: [SCT Datamart](#)

**Number of Applicants** -- The number of new students selecting this major on the common application form plus the number of continuing students who change their major to this one for consideration for [Fall 2005](#) as of [March 2006](#).

Source: Prior data: [Department Statistics](#)

Current data: [SCT Datamart](#)

**Number of FTE Majors** -- The number of the total student semester hours in this program during [Fall 2005](#) as of [March 2006](#) divided by 12.

Source: [SCT Datamart](#)

**Number of FTE Faculty** -- The number of course-semester hours taught in this program divided by 15 during [Fall 2005](#) as of [March 2006](#).

Source: [SCT Datamart](#)

**Number of Student Semester Hours (SSH)** -- The sum of semester hours taken by all students who are majors of this program in all regular credit courses [Fall 2005](#) as of [March 2006](#).

Source: [SCT Datamart](#)

#### **Employment Opportunities**

**Current Positions** -- The number of current statewide jobs in the category for which students in this program are being trained.

Source: State of HI Employment Outlook for Industries & Occupations, [1996 - 2006](#)

**Projected Positions** -- The estimated number of statewide jobs in [2006](#) in the category for which students are being trained.

Source: State of HI Employment Outlook for Industries & Occupations, [1996 - 2006](#)

**Average Openings Per Year** -- The estimated number of job openings in this category per year. The number of openings includes both those resulting from turnover in existing jobs and from expansion of the industry.

Source: State of HI Employment Outlook for Industries & Occupations, [1996 – 2006](#)

Effectiveness

Satisfaction Surveys

*Students:* On a scale of 1 to 4 with 4 being the highest, the mean for the issue of overall satisfaction with the program, based on a February 1999 survey.

Source: Department Surveys

*Employer:* On a scale of 1 to 4 with 4 being the highest on the item dealing with overall performance.

Source: Department Surveys

### **Program**

**Pass Rate on License/Certificate Exam** – The total number of [Spring 2005](#) graduates who passed the certification exam divided by the total number of the same cohort students who took it.

Source: [Department Statistics](#)

**Cohort Graduation Rate** -- The proportion of majors who enrolled for the first time in the program in [Spring 2003](#) and who graduated by [Spring 2005](#). Majors counted are those new students who are registered for 1 semester hour or more and who have been accepted into the program plus those continuing students who are registered for 1 semester hour or more and who change their major to this one.

Source: [SCT Datamart](#)

**Number of Degrees Awarded** -- The total number of degrees and certificates awarded to students of this program during the academic year [2004-2005](#).

Source: Prior data: [SCT Datamart](#)

Current data: [MAPS Reports](#)

Efficiency

**FTE Students per FTE Faculty** -- The number of the total student-semester hours (numerator) divided by 12 as of [March 2006](#) over the number of course-semester hours offered in the program (denominator) divided by 15 as of [March 2006](#).

Source: FTE Students: [SCT Datamart](#)

FTE Faculty: [SCT Datamart](#)

**Average Class Size** -- The sum of the number of students registered in each program course divided by the number of courses offered in the program as of [March 2006](#).

Source: [SCT Datamart](#)

**Occupancy Rate** -- The total number of students registered in each program course divided by the sum of the number of openings for these courses as of [March 2006](#). For these indicators, the upper and lower cutoff points are set at 80% and 65% universally.  
Source: [SCT Datamart](#)

## **Appendix A: History and Admission Requirements**

### HISTORY

The MLT Program was established in 1972 as one of five Allied Health programs developed under a Federal grant to increase allied health manpower in Hawaii and the Pacific Basin. It was one of the first programs to be moved to the Diamond Head campus and since 1984 has been housed in Kauila Building along with all of the other Health Sciences programs.

Following an unfavorable accreditation site visit review, the program was discontinued in 1980-81. A new program director was hired, major revisions were made in the program curriculum, and students were again admitted in the Fall 1981. The program received initial accreditation in 1983 for three years, with an extension of two years upon approval of a progress report in 1985. The program was reaccredited for the full five-year term in 1988; the next reaccreditation site visit was completed in October 1992. There were no violations of the thirty Essentials found in the self-study or the site visit. The program received full accreditation for seven years in 1992 and in 2000 (exp 2007).

In 1989-90, in response to community demand, the program director developed a short-term Certificate of Completion in Phlebotomy which was initially approved by NAACLS in 1992 and renewed in 1996 and 2000. Subsequently the program curriculum was revised so that the same course served as the introduction to MLT, the Phlebotomy didactic, and the Medical Assistant clinical lab procedures course. The Phlebotomy program was moved to non-credit in summer 1996, and continues to be under the direction of the MLT program.

In the Fall 1992, in response to a request from a neighbor island and with Act 68 funding from the Department of Labor, extension of the program to Hilo, Kona, and Maui was begun via HITS and other means.

In Fall 1995, an outreach of the MLT program was started in American Samoa. Students completed the program in Fall 1996, but did not take the ASCP exam until June 1997.

### ADMISSION REQUIREMENTS

Students are admitted to the MLT program for the Spring semester, basis on completion of the following pre-requisites.

- MLT 100 or equivalent course or experience
- Math 103 or higher
- CHEM 161, 161L or equivalent course
- BIOL 130 or equivalent course
- ENG 100 or equivalent course

First accepted will be those who have completed all pre-requisites. Students currently enrolled in pre-requisities will be accepted on a first-applied, first-accepted basis.

## Appendix B: Degree Requirements

### Associate in Science Degree

| <i>Pre-requisites</i>                       | <i>Credits</i> |
|---|----------------|
| CHEM 161, General Chemistry I               | 3              |
| CHEM 161L, General Chemistry I Lab          | 1              |
| BIOL 130, Anatomy and Physiology            | 4              |
| MATH 103 or higher                          | 3              |
| MLT 100, Introduction to the Clinical Lab   | 2              |
| ENG 100, Expository Writing                 | 3              |
| <i>Semester Total</i>                       | 16             |
|   |                |
| <i>Second Semester (Spring)</i>             | <i>Credits</i> |
| CHEM 162, General Chemistry II              | 3              |
| CHEM 162L, General Chemistry II Lab         | 1              |
| MICRO 130, Microbiology                     | 3              |
| MICRO 161, Immunology                       | 2              |
| MLT 108, Hematology                         | 5              |
| MLT 118, Body Fluids                        | 1              |
| MLT 112, Clinical Biochemistry I            | 3              |
| <i>Semester Total</i>                       | <del>18</del>  |
|   |                |
| <i>Summer Session</i>                       | <i>Credits</i> |
| MLT 107, Clinical Microbiology I            | 3              |
| MLT 100B, Phlebotomy Practicum              | 1              |
| <i>Semester Total</i>                       | 4              |
|   |                |
| <i>Third Semester (Fall)</i>                | <i>Credits</i> |
| MLT 212, Clinical Chemistry II              | 4              |
| MLT 204, Immunohematology                   | 2              |
| MLT 207, Clinical Microbiology II           | 3              |
| MLT 211, Clinical Microscopy                | 1              |
| A.S. Social Science (100 level or higher)   | 3              |
| A.S. Humanities (100 level or higher)       | 3              |
| <i>Semester Total</i>                       | 16             |
|   |                |
| <i>Fourth Semester (Spring)</i>             | <i>Credits</i> |
| MLT 240, Seminar                            | 1              |
| MLT 242B, Clinical Rotation II-Blood Bank   | 2              |
| MLT 242C, Clinical Rotation II-Chemistry    | 5              |
| MLT 242D, Clinical Rotation II-Microbiology | 5              |
| MLT 242E, Clinical Rotation II-Hematology   | 4              |
| <i>Semester Total</i>                       | 17             |
|   |                |
| <b>TOTAL CREDITS</b>                        | <b>71</b>      |

Clinical Rotation is conducted in affiliated community hospitals and laboratories and involves a regular work week of 40 hours for 18 weeks. Hours are scheduled by clinical staff and may include an occasional evening shift.

Note: A grade of "C" or higher must be maintained in all required courses to continue in the program. A student who does not satisfactorily complete the required courses as scheduled must have the program director's approval to continue in the program.

## **Appendix C: Faculty**

### **Regular Faculty**

Marcia Armstrong, M.S., CLS(NCA), Professor,  
Program Director-Education Coordinator, tenured 1986

Sally Pestana, B.S., CLS(NCA), Professor, tenured 2005  
Phlebotomy Program Coordinator

### **Lecturers**

Naomi Isaacson, B.S., M.T. (ASCP), teaching 3-4 credits/semester

## ADJUNCT FACULTY

### **Castle Medical Center**

Garth Weitzel, M.L.T. (A.S.C.P.)

### **Clinical Laboratories of Hawai'i (Hilo)**

Mavis Hagiwara, A.S., M.L.T.(A.S.C.P.), M.T. (H.E.W.)

Lisa Javier, B.S., M.T. (A.S.C.P.), C.L.S. (N.C.A.)

Gavin Kawano, B.S., M.T. (A.S.C.P.), C.L.S. (N.C.A.)

Jean Kawano, B.S., M.T. (A.S.C.P.), C.L.S. (N.C.A.)

Brian Koge, B.S., M.T. (A.S.C.P.)

Wayne Long, B.S., M.T. (A.S.C.P.)

### **Clinical Laboratories of Hawai'i (Kona)**

Francis Boyce, B.A., M.T. (A.S.C.P.), S.M. (N.C.A.)

Penny Mack, B.A., M.T. (A.S.C.P.)

Sandra Ryan, B.A., M.T. (A.S.C.P.)

### **Clinical Laboratories of Hawai'i (Maui)**

Vicki A. D. Eto, B.S., M.T. (A.S.C.P.)

Wade Hiraga, B.S., M.T. (A.S.C.P.)

Linda Rivera, B.A., M.T. (A.S.C.P.)

Robin Terui, B.S., M.T. (A.S.C.P.)

### **Diagnostic Laboratory Services, Inc.**

Amelia Chan, B.S., M.T. (A.S.C.P.)

Linda Hashiro, B.S., M.T. (A.S.C.P.), C.L.S. (N.C.A.)

Jodie Kawamoto, M.T. (A.S.C.P.)

Lynette Kilantang, B.S., M.T. (A.S.C.P.)

Kay Nishimura, B.S., M.T. (A.S.C.P.)

### **Hawai'i State Department of Health Laboratories Branch**

Harry Y. Domen, M.S., S.M. (A.S.C.P.)

Henry Higa, B.S., state license

Lei Inouye-Ching, A.S., M.L.T. (A.S.C.P.)

Norman O'Conner, B.S., M.T. (A.S.C.P.), S.M. (A.S.C.P.)

Robert Ueki, B.S., state license

### **Hawai'i State Hospital**

Tracy Harada, M.T. (A.S.C.P.)

### **Kuakini Medical Center**

Aldine Brown, B.S., M.T. (A.S.C.P.), C.L.S. (N.C.A.)

Dianne Downey, B.S., M.T. (A.S.C.P.)

Bessie Fukeda, B.S., M.T. (A.S.C.P.)

Norman Oshiro, B.S., M.T. (A.S.C.P.)

Linda Yap, B.S., M.T. (A.S.C.P.)

**Tripler Army Medical Center**

Clayton Au, M.T. (A.S.C.P.)

Bardwell J. Eberly, M.T. (A.S.C.P.), S.M. (A.S.C.P.)

Annette Harada, M.T. (A.S.C.P.), S.H. (A.S.C.P.)

Lynne Ramirez, M.T. (A.S.C.P.)

Yvonne N. N. Yogi, M.T. (A.S.C.P.), S.B.B. (A.S.C.P.)

**Veterans Affairs Medical Regional Clinic**

Maurice Matsunaga, M.T. (A.S.C.P.)

**Wahiawa General Hospital**

Arthur Choy, M.T. (A.S.C.P.)

Nolan Nakasone, M.T. (A.S.C.P.)

Beverly Sora, M.T. (A.S.C.P.)

**Waianae Coast Comprehensive Health Center**

Dale Nakayama, M.T. (A.S.C.P.)

Dean T. Yoshimura, M.T. (A.S.C.P.), C.L.S. (N.C.A.)

**Appendix D:**  
**ADVISORY COMMITTEE**  
As of Spring 2006

The program advisory committee meets formally once a year to discuss and advise on curriculum, recruitment, and other matters. There is frequent contact with individual members through other professional associations.

**Aldine Brown, M.T. (ASCP)**  
Kuakini Health Systems

**Susan Naka, M.T. (ASCP)**  
Hawaii State Dept. of Health

**Michael J. Perry**  
Castle Medical Center

**Arlene Rosehill, M.T. (ASCP)**  
Clinical Labs of Hawaii

**Cara Heilman**  
Clinical Labs of Hawaii

**Richard Okazaki**  
Diagnostic Lab Services

**Stephanie Horio**  
Diagnostic Lab Services

**Charlotte Wagner**  
Diagnostic Lab Services

**Stacy Honda, MD**  
Kaiser Permanente

**Celeste Matsuo**  
Kaiser Permanente

**Eugene Yanagihara, MD**  
Kuakini Health Systems

**Bardwell Eberly**  
Tripler Army Medical Center

**Andre Theriault**  
UH Manoa, Med Tech Division