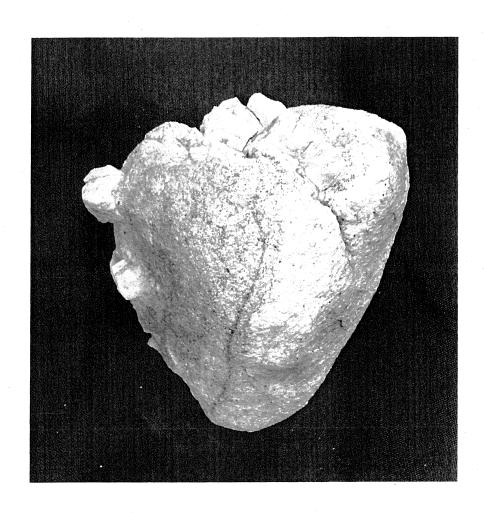
Grossmont College Academic Program Review



Cardiovascular Technology Program
Spring 2009



CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE

FULL TIME FACULTY MEMBERS

FACULTY	SIGNATURE	DATE
Andy Biondo	3.	2/10/09
Rick Kirby	Rosside	2/10/09
Helen Potter	Deen Patter	2/17/09
Don Ridgway	Oul P. Mil. J.	2/17/09
Dan Sullivan		2/17/09

ADJUNCT FACULTY MEMBERS

Michael Botha, Scripps Chula Vista	Ona O'Keefe, Sharp Reese-Stealy Clinic
Erik Echegrary, Scripps Green Hospital	James Phan – Scripps Mercy Hospital
Edgar Garcia, Kaiser Permanente	Raymond Schwend, Scripps Green Hospital
Bridget Heaton, Alvarado Medical Center	

On the Cover: Nature's example of a heart of stone. This remarkable rock was discovered in a barren wash in the Anza Borrego desert by JoAnn Faulise, long-time administrative assistant to the CVT Program who passed in late 2008. The similarity of the rock to actual cardiac anatomy is uncanny. The heart rock is located in the CVT Office and serves as a reminder of Jo and her outstanding service to our students, the CVT Program and Grossmont College.

Cover design and photo by Don Ridgway.

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CARDIOVASCULAR TECHNOLOGY ACADEMIC PROGRAM REVIEW

Spring 2009

SECTION 1 – OVERVIEW

Department/program history, recent trends, response to last program review recommendations.

Concise History

1.1 Introduce the self-study with a brief department/program history. Describe any unique characteristics, concerns or trends affecting the program and any significant changes or needs anticipated in the next three years. These may include items such as increases or decrease in numbers of full-time and adjunct faculty, sections offered, and growth or decline of the department/program. Remember that this is a broad general assessment versus the more detailed responses and recommendations covered in the following emphasis areas (1 page maximum.)

The Cardiovascular Technology Program was founded in 1972 by Dr. Willard Dellegar. The initial curriculum was composed of a series of courses leading to an Associate Degree in Biomedical Technology which emphasized the repair of specialized medical electronic instruments. While graduates were obtaining employment in that field, feedback from employers and potential employers indicated a greater need for Allied Health Professionals who could assist physicians in the performance of sophisticated medical diagnostic and interventional tests such as cardiac catheterization and angiographic procedures, cardiac ultrasound studies and vascular duplex imaging. Dr. Dellegar enlisted the assistance of local technologists and the Naval Medical Center to revise the program, and over a two-year period the faculty was expanded to include staff from the clinical arena, and the curriculum was revised from a "Biomedical" orientation to a clinically-based, Cardiovascular Technology program.

The current curriculum is composed of a one-year plus one summer session, 29-unit Core Curriculum in mathematics, physics, advanced cardiovascular anatomy, physiology and pathophysiology, medical electronics and instrumentation, cardiovascular pharmacology, and clinical practicum. Prerequisite courses in Chemistry (4 Units) and Human Anatomy and Physiology (8 Units) are required for admission. Following completion of the Core Curriculum, students select one of three specialties in the scope of practice; Invasive Cardiovascular Technology, Noninvasive Cardiovascular Technology, or Vascular Technology. The first year of the program is composed of campus-based lectures and labs. The second year specialty training is composed of on-campus lectures and labs, and clinical experience in local hospitals.

Accreditation for Cardiovascular Technology education was established by the American Medical Association in 1986, and the Grossmont program was the first in the nation to be accredited. Graduates of the program can be found across the country, the Middle East, England, New Zealand and Australia. Most are hired prior to graduation. Hospitals recruit graduates offering salaries in the \$50,000 range, with excellent benefit packages, and sometimes with moving expenses and/or a signing bonus. Our records indicate 100% employment for graduates who want to work.

There is also a need to conduct a needs survey and explore the feasibility of incorporating an additional track into the CVT Program when resources are available. Instruction would be designed to provide certification in the area of Electrophysiology studies, another very specialized component of the scope of practice. Otherwise, the program is stable and no major changes are anticipated in the structure of the curriculum in the near future.

Department Program Goals

- 1.2 Appendix 1 contains the most recent Educational Master Plan for the department/program. Make comments on the following:
 - Which goals have been met? Goal 1 (Recruit faculty) and Goal 2 (provide tutoring) have been met. Goals 3 (SLO's), Goal 4 (Assist ROP with Anesthesia Monitoring courses) and Goal 5 (Curriculum Review) have been addressed and all are on-going.
 - What actions have been taken in achieving these goals and objectives? Two new full time faculty members have been recruited and hired and basic and advanced tutors have been recruited, trained and hired (Goals 1&2). Student learning outcomes have been identified for all courses in fall semester, first and second year levels, and methods of assessment have been standardized and will be published in student syllabi beginning in Fall 2009 (Goal 3). A series of 299 courses have been developed, adjunct faculty hired, and the first group of students entered the workplace as Anesthesia Monitoring Technicians at the end of summer 2007 (Goal 4). Curriculum review is an ongoing process for the department based on changes in the scope of practice and recommendations from the Joint Review Committee on CVT Education (JRC-CVT) and the program Advisory Committee (Goal 5).
 - What obstacles have been encountered? The college policy of filling classes with adjunct instructors for one year prior to authorization to replace full time faculty was very disruptive to our curriculum and the stability of the program. Adjunct instructors are difficult to recruit and hire for the wages paid by our district. We were without a stable faculty for approximately 3 years until the Fall 08 semester.
 - Full time instructors are even more difficult to recruit and hire for the wages paid by the district. Nation-wide searches have been conducted with little success, and when 2

qualified candidates were identified and offered positions, both refused the offer when they were informed of the salary to be paid. This situation has been somewhat temporarily alleviated by obtaining a grant from the Grossmont Healthcare District which was used to recruit and retain qualified instructors. The current coordinator retired at the end of Spring 2006 but has returned on a part-time basis until a new coordinator can be identified and trained to assume that responsibility.

- How have these goals changed and why? They have not changed.
- 1.2 Appendix 2 contains the most recent Program Review Committee recommendations for the department/program. Describe changes that have been made in the department/program in response to recommendations from the last review.

Here are the four recommendations and the response to each:

Recommendation #1 - Continue to work to develop a viable GE package that better meets the needs of your students. Response: A GE package modeled on the Nursing and Respiratory Therapy programs was developed and approved by the Curriculum Committee in September, 2002.

Recommendation #2 – With other health sciences, utilize campus and district resources for marketing and public awareness of the program in the community. Response: The program is currently impacted and there is a waiting list of approximately two years. It appears that the community is aware of the existence of the program and the potential benefits associated with a career in Cardiovascular Technology.

Recommendation #3 – Advance the planning process for the new and remodeled health science building. Response: The department has been involved in all stages of the process for planning the new building. Both the coordinator, Rick Kirby and one full time faculty member, Don Ridgway, currently serve on that taskforce.

Recommendation #4 – Seek general fund support for the tutoring program. Response: The tutoring budget in the general fund and the Perkins VETA fund were both increased shortly after our last program review and are considered adequate for current enrollments.

Advisory committee Recommendation

Some disciplines such as ESL and vocational program are required to have advisory committees. Answer this question if this is application to your department/program.

The CVT Advisory Committee is composed of 2 physician medical directors, 6 physician specialists in cardiovascular medicine, 7 senior technologist/department managers from local hospitals, the CVT faculty, the Division Dean, and the Presidents of both the 1st and 2nd year classes. The committee

meets annually in May to receive a report on the status of the program, review the program syllabus and recommend revisions to the curriculum.

1.4 If appropriate, summarize the principal recommendations of the program advisory committee since the last program review. Describe how the department/program has responded to these recommendations. Include the date of the last meeting and frequency of meetings. List organizations represented.

Recommendations from the committee have centered on maintaining the curriculum to the scope of practice and adequate staffing levels. Specific recommendations have been:

May 2007 – The curriculum was reviewed and found to be appropriate to the scope of practice. There was one recommendation from Drs. Otis and Ceretto that instruction on the evaluation of intimal-medial thickening be added to the Vascular Track curriculum. This topic was added to the course in Spring 2008.

May 2006 – The curriculum was reviewed and found to appropriate to the scope of practice. There was discussion as to possible implications of a combination of diagnostic cardiology labs and interventional radiology sharing the scope of practice. There were no specific recommendations from the committees as to possible impact on the CVT curriculum or competencies.

May 2005 – The committee approved a proposal from the faculty to implement a pilot project to require students in the Invasive Track to sit for the national registry exam during finals week of their graduating semester. The project was implemented and carried out for 2 years and then changed from a "requirement" to a recommendation. This action was due to inconsistencies in the faculty teaching the courses.

May 2004 – The committee approved the addition of the requirement that students enrolled in the Invasive Track be required to complete Advanced Cardiac Life Support (ACLS) as part of their course work. There was also discussion as to the implications of the pending retirement of Jerome Passman and the challenges to be faced associated with the hiring practices currently in force at the college/district.

May 2003 – There was discussion as to the allocation of specific amounts of time devoted to medical electronics and instrumentation, noninvasive techniques and increased emphasis on abdominal Doppler techniques. There were no specific recommendations from the committee.

Local representation includes:

William J. Ceretto, M.D. – Cardiologist (Co-Medical Director)
Shirley M. Otis, M.D. – Department Chair and Senior Consultant, Neurology Division and Director,
Vascular Diagnostics Laboratory, Scripps Green Hospital (Co-Medical Director)
Howard Dittrich, M.D. – Chief Medical Officer, Sequel Pharmaceuticals and Clinical Professor of
Medicine. UCSD Medical Center

Mary Kalafut, M.D. – Neurologist, Scripps Green Hospital
Vincent Guzzetta, M.D. Vascular Surgeon
James Mathewson, M.D., Pediatric Cardiologist, Children's Hospital
Michael Botha, RCIS, Manager, Cardiac Catheterization Laboratory, Scripps Chula Vista
Dan Miller, RCIS, Manager, Cardiology Services, Scripps Mercy Hospital
Colin Ramsey, RCIS, Manager, Cardiology Services, Sharp Grossmont Hospital
Marylou Upton, RCS, Manager, San Diego Cardiac Center
James Phan, RCIS, RVT, RCS, MA, Management Team, Scripps Mercy Hospital
Raymond Schwend, RVT, Senior Technologist, Vascular Laboratory, Scripps Green Hospital

SECTION 2 - CURRICULUM, ACADEMIC STANDARDS, AND SUPPORT SERVICES

In Appendix 3, Catalog Descriptions, insert copies of your catalog descriptions from the most recent college catalog (see "Course of Instruction" section). If your program has an Associate Degree program, include the relevant pages for the catalog (see "Associate Degree" section).

Complete - Please see Appendix 3

To complete Appendix 4 Course Status, review your course outlines and complete the form in the appendix to reflect currency of the courses, offerings, and alignment status. The table is complete. Please see Appendix 4.

- 2.1 Review all course outlines and comment on where your department/program is in the process of maintaining currency. Verify that the course outline reflect the writing, reading, and problem-solving skills, quantitative reasoning, and critical thinking across the department/program's curriculum.
 - Course Currency CVTE 107, 120, 201, and 211 are due for review and updating.
 CVTE 201 and 211 have been reviewed in Fall 2007 and submitted to the Instructional Operations Office for action by the Curriculum Committee. The other courses will be submitted for review in the next academic year.
 - All courses have been approved by the curriculum committee and reflect the required writing, reading and problem-solving skills, quantitative reasoning, and critical thinking across the CVT curriculum.

2.2 Describe how your department makes decisions related to the following:

a) Identification of student learning outcomes – Primary direction for student learning outcomes is provided by the "<u>Guidelines and Essentials of an Accredited CVT Program</u>" published by the Joint Review Committee on CVT Education. Additional guidance is provided by the CVT Advisory Committee and our clinical affiliates. A collaborative process among all full time members of the faculty is used to refine the input from these sources and then translate them into the curriculum. Curriculum issues are addressed in part via a biweekly CVT faculty

meeting and department meetings which include adjunct faculty during Professional Development Week each semester.

b) Methods to demonstrate achievement of these learning outcomes.

Assessment of learning outcomes is evaluated via a combination of written examinations, oral examinations, writing assignments, clinical performance tests, graduate success rates on national registry exams, and graduate placement.

How do you use this information for course and program improvement?

The information is used to identify areas of the curriculum in the scope of practice that require review and revision as appropriate.

- 2.3 Explain how the department/program maintains academic standards, integrity and consistency to assure that current curriculum adequately meets students' needs (e.g., general education, prerequisites, job-specific training, transfer). Explain how the department/program ensures that all instructors teach to the official course outline.
 - a. Academic Standards The courses in the CVT major contain highly technical content dealing with diagnostic and interventional cardiovascular medicine. Graduates of the program work with critically ill patients and there is little room for error in their care. The program requires all courses with the exception of two, to be completed with a minimum of 75% average. The two exceptions are clinical practicum courses and require an 85% average for a passing grade.
 - b. Academic Integrity All CVT syllabi distributed to the students on the first day of class contain the following statement:

Academic Integrity. The Cardiovascular Technology profession demands the highest moral and clinical standards. Cheating will not be tolerated in the Program just as it will not be tolerated in clinical practice. The official Grossmont College policy on cheating is detailed in the Student Code of Conduct, which is available in the office of the Director of Student Affairs. In accordance with this policy, the CVT Department defines cheating as any one of the following:

- Talking to another student during an exam
- Copying (or attempting to copy) answers from another student's paper during exams or
- Ouizzes
- Plagiarism in connection with any academic process including submitting tracings, measurements/calculations, or reports which were prepared by anyone other than yourself
- Soliciting or assisting another student to any act which would violate this policy
- Duplicating any copyrighted material for any reason

Instructors have the authority to suspend any student suspected of cheating for the class meeting in which the incident occurs and one additional class meeting. Following a review of the incident, the college policy on student conduct prevails and the student may be denied future access to the Program. Refer to the Student Code of Conduct for additional information on this policy.

This information is also published in the CVT Student Information Booklet. The policy is strictly enforced. In the past 2 years, 2 students have been expelled from the program and the college for committing plagiarism.

Consistency – The program began in 1972 and over the years the curriculum has been refined to insure the appropriateness of the prerequisite courses in preparing students to work at the required level of rigor they encounter in the program. The General Education requirement has been evaluated and modified as appropriate as indicated previously.

The curriculum is totally integrated, and theoretical concepts are often presented as part of one class and then clinical application accomplished in a different class (or lab). If an instructor does not teach to the official course outline, it quickly becomes evident to other members of the staff and corrections are made as appropriate. The issue is documented in the instructor's evaluation and if an adjunct instructor, they may not be assigned classes in the future OR in the case of a full time, non-tenured faculty member, this could be grounds to cease the tenure process and refuse to rehire. In either case, college policy is strictly adhered to. The CVT faculty historically has worked generally well to ensure continuity of the curriculum.

2.4 Using Appendix 5, Grade Distribution Summary Report, comment on retention and grading variability figures. Discuss any specific courses that have unusual retention patterns or grading variances.

Retention – Retention has been consistent in the program since the last program review. First year classes average 10-12% with a slight rise to 13% in Spring 2007. Second year class attrition averages 2-3%.

Grade Distribution – Analysis of the data provided indicates little change in grading patterns over the past 5 years. It should be noted that students accepted into the program average 27 years in age, have completed 12 units of course work in the sciences as prerequisites and are highly motivated to do well. The program does not issue "D" grades and there are few "C's". CVTE 205 and CVTE 215 are clinical practicum courses based in local hospitals and are essentially pass/fail. Grades are derived from student clinical log sheets and assigned clinical case reports.

2.5 Describe strategies employed to ensure consistency in grading in multiple section courses (e.g., mastery level assessment, writing rubrics, departmental determination of core areas which must be taught).

Multiple section courses in the department are clinical lab courses and use multiple measures to assess student competency. Paper and pencil tests, reading assignments, a comprehensive final examination, graded lab exercises, and clinical performance tests are examples. Course content is guided by the <u>Guidelines and Essentials</u> published by the accrediting agency (The JRC-CVT), the CVT Advisory Committee, and our clinical affiliates. Standardized grading sheets have been developed by the faculty. In most cases the sheets are distributed to the students two weeks or more before the performance exams are conducted so that they are informed of exactly what the instructor will be grading and the points available for each section. Grading variance between instructors has not been an issue to date. Since the full-time CVT faculty is fairly small (four instructors), integration and consistency have been relatively easy to maintain.

2.6 Describe how your department/program encourages students to extend learning outside of the formal classroom.

- a. A 30-station computer center with state-of-the-art machines connected to the Internet is available for students to use in study, research and technical writing assignments.
- b. Attendance at local and regional seminars and conferences on cardiovascular medicine.
- c. Assignment to clinical experience in local hospitals which provides availability to a patient population with cardiovascular disease and millions of dollars in state-of-the-art medical diagnostic instrumentation not available on campus.
- d. Open lab times with trained tutors available to assist in the acquisition and refinement of clinical skills in diagnostic testing.
- e. An array of technical journals available in the LRC.

2.7 Describe and give rationale for any new courses or programs you are developing or have developed since the last program review. How have current issues (environmental, societal, ethical, political, technological) been reflected in your curriculum.

The program has participated in the development of courses designed to teach the principles of Anesthesia Technology. The courses were developed in response to a community request from area hospitals; they were unable to recruit and hire trained Anesthesia Technicians to work in their operating rooms. The program is being developed in conjunction with the ROP Office and the CVT coordinator assisted in the development of the initial 299 courses, interviewing and hiring faculty, and instructor evaluation. Ten courses have been developed, four instructors have been recruited and hired and the official course outlines were scheduled to go before the Curriculum Committee in Fall 08. These courses do not contain environmental, societal, ethical or political subject matter but are highly technical in scope.

2.8 In Appendix 4, Course Status, list the courses in the department/program that are duplicated at Cuyamaca College and identify their alignment status. Comment on courses which have not been aligned and describe the plans for alignment.

None. There are no CVT courses taught at Cuyamaca College at present. Grossmont has the only CVTE Program in the San Diego area and is one of only two accredited programs in the State of California.

Innovation/Special Projects/Community Involvement

2.9 Describe instructional innovations and/or special projects undertaken by the department/program or individual faculty members, including the use of technology.

Don Ridgway has authored a nationally-acclaimed textbook on Vascular Technology. *Introduction to Vascular Scanning*, from Davies Publications, is now in revision for the 4th edition. His textbook on vascular anatomy and physiology is due out later in the spring of 2009. Don has also published *Vascular Technology Review*, a collection of approximately 600 questions which is used as a tool for preparation for the national vascular registry examination (also available in CD-ROM format to simulate the exam environment). He is also the Associate Editor of *Vascular Physics Review*, a similar review book for the ARDMS physics exam, and has another textbook on vascular anatomy and physiology nearing completion.

There are two online courses in the department. Both are structured to provide a comprehensive review prior to taking national registry exams.

Another innovation/special project undertaken by the department is the Anesthesia Technician program previously described.

2.10 With the interest and needs of the community in mind, describe any outreach or community activities initiated by the department/program.

The program coordinator holds a one-hour weekly orientation meeting each Tuesday at 9:00 AM. The meeting is open to members of the public and/or students in other courses at the college and provides a detailed overview of the Cardiovascular Technology profession and a tour of the CVT Laboratory.

The program participates in the Career Fair each fall semester and the Health Fair each spring semester.

Don Ridgway and the students enrolled in the Vascular Track of the program conduct a cardiovascular screening test for members of Club 65, a senior services group at Sharp Grossmont Hospital. Seventy-one patients were screened for evidence of lower-extremity disease in November 2007. Three patients were identified to have evidence of disease and

were referred to their physicians for early intervention. Screenings for carotid artery disease and abdominal aortic aneurysm are held at Grossmont Hospital's cardiology department in the spring.

2.11 Provide specific examples of departmental or individual efforts aimed at encouraging students to become actively engaged in the learning process.

Students are required to work in a group of their peers (typically 4 students) as they acquire and refine their diagnostic skills such as blood pressure measurement, segmental pressure determination, electrical circuit analysis, echocardiography, aseptic technique and duplex ultrasound studies. The students are fully engaged in the instructional process and support/oversight is provided by a combination of CVT faculty and second year students.

2.12 Explain the department/program's relationship to others on campus (e.g., fulfill prerequisites for other general education programs, cross-listing, interdisciplinary course offerings, learning communities.)

The program relies on other departments on campus to provide prerequisite and general education courses. Special reliance is placed on the Chemistry and Biology departments and cooperation has been excellent in the past. There are no cross-listed interdisciplinary course offerings in the department.

Campus Resources

- 2.13 Indicate what the department/program has done to formalize links with the following college support services:
 - Learning Assistance Centers (Biology Learning Center, English Writing and Reading Centers, Math Study Center, Tutoring Center) The only referral used routinely from CVT is the English Writing and Reading center when language deficiencies in our students are detected.
 - **Technology Mall** The department occasionally reserves a room to conduct online exams or projects.
 - Instructional Media (upstairs in the Library Technology Resource Center) The
 department maintains an extensive collection of audiovisual material in Room 329A so little
 interaction occurs with IM Services.
 - Others n/a
- 2.14 Evaluate and provide a summary of the current status of library resources related to the department/program. Use the subject-specialist librarian assigned to your department/program to assist in the evaluation. Consider books, periodicals and online resources.

The following journals are available in the LRC and are considered adequate to the scope of practice and current enrollments.

PUBLICATION	AVAILABILITY
Circulation	1990 - Date
Index Medicus	1976 - Date
Journal of CV Surgery	1991 - Date
Journal of Invasive Cardiology	1989 - Date
Journal of the American Society of	1989 - Date
Echocardiography	
Journal of Ultrasound in Medicine	1990 - Date
Journal of Vascular Technology	1989 - Date

There is also a wide array of textbooks on Cardiovascular Disease. It has been noted that use of the materials in the LRC by our students has decreased in recent years since the majority rely heavily on the Internet for learning outside the classroom.

2.15 Describe the working relationship between the department/program and the Counseling Department in terms of exchanging specific and current information about your department/program that counselors can use to help students develop education plans and make career decisions.

The program coordinator attends the Counseling Center Staff meeting annually in March and in some cases during Spring and Fall semesters in order to provide an overview of the program, demand for graduates and request assistance in identifying students interested in technical careers in Allied Health. The department also reviews and updates the Planning Sheet on an annual basis which is used by the counseling staff when advising students as to courses required to enter and complete the program and Associate Degree.

2.16 Comment on the results of the student survey, Appendix 6, regarding campus resources.

Assessment & Testing Center – 81.6% of CVT students report that they rarely or never use this service. Of those who do, it is likely those who take assessment tests in Mathematics in order to enroll in the Chemistry prerequisite course for CVT or English to determine which course to take for the AS Degree or certificate.

Career Center – 98.5% of CVT students report that they rarely or never use this service. It should be noted that students entering the CVT Program have already selected the profession as a career path and completed 12 units of prerequisite course work. The program maintains an extensive listing of jobs available upon graduation. The Career Center has been supportive of the program in providing an outstanding workshop on resume preparation which was presented to the Classes of 2006, 2007 and 2008 by Nancy Davis.

Counseling Office – 97.1% of CVT students report that they rarely or never use this service. Students are encouraged early in the first year of the program to schedule an appointment with counseling in order to determine eligibility for their Certificate of Achievement or the Associate Degree.

English Writing Center – 95.4% of CVT students report that they rarely or never use this service.

English Reading Center – 98.4% of CVT students report that they rarely or never use this service.

Health Services – 96.0% of CVT students report that they rarely or never use this service. However, many of our students have used this service in the past to obtain physical examinations and immunizations prior to entering the program or being assigned to clinical practicum in local hospitals. Additionally, the program encourages second-year students to obtain flu shots, which is desirable in health-care workers. (Flu shots are likely to become mandatory for health sciences students in clinical sites in the near future.)

LRC: Computer Lab (SETL) – 52.1 % of our students report that they rarely or never use this service. The remaining students fall into the other two categories; often, 2-5 times/week (19.7%) or rarely (28.2%). It should be noted that CVT students have access to the Health Professions Computer Center, Room 352A which is located in the building 35 adjacent to the CVT Lab and provides access to the Internet in addition to a wide array of online learning resources.

LRC: Instructional Media – 16.9% of CVT students report that they sometimes use the video carrels in the LRC. They are likely used for study sessions in preparation for exams.

LRC: Main Library – 41.4% of CVT students report using the main library. As noted earlier the Internet has become the primary tool for research used by our students.

Math Study Center – 96.9% of CVT students report that they rarely or never use this service. Tutoring in mathematics and physics is provided by the CVT faculty as required.

Student Affairs Office – 93.6% of CVT students report that they rarely or never use this service.

Tutoring Center – 95.4% of CVT students report that they rarely or never use this service. Tutoring in CVT topics is not available in the Tutoring Center so this service is provided by a combination of 2nd year students and the CVT faculty.

2.17 List courses that have been formally articulated with the high schools. Describe any articulation and/or collaboration efforts with K-12 schools.

None of the CVT courses have been formally articulated with area high schools. A brochure is available which describes a pathway for a high school student to follow for entry into the CVT profession. It outlines the prerequisite courses, suggests high school courses for completion in the sciences and then gives an overview of the major courses. The brochure is distributed at career fairs and when high school students visit the campus and the CVT laboratories. A copy of the brochure is included at the end of this booklet.

2.18 After reviewing ASSIST.org and the Grossmont College articulation website, please identify if there are any areas of concern or additional needs your department has about articulation with four-year institutions. Please describe how the department/program ensures that articulations with key four-year universities are current.

The program is not officially articulated to any four-year institutions. The program provides competency in entry-level positions as Cardiovascular Technologists. Graduates who continue their education typically pursue degrees in related areas such as advanced physiology, computer science, education, administration, allied health care management, and research methodology. There is a program at National University that accepts our graduates at an advanced level should the students decide to pursue a degree in Medical Administration/Management.

SECTION 3 – STUDENT ACCESS AND SUCCESS

3.1 In addition to the innovations listed in 2.11, describe specific ways the department/program has adjusted or developed curriculum to foster student success (e.g., addition of pre-collegiate introduction courses, bridge courses, variable unit courses, on-line courses, honors courses, web enhanced learning).

None other than those listed in detail in 2.11.

3.2 Analyze Appendix 7, Statistical Data: Outcomes Profile, and comment on strategies utilized to address the needs of the various cohort groups. Provide specific strategies that have been used to meet the different needs of your students (e.g. re-entry, academically under prepared, working, disabled, limited English.)

Students who enter the program have completed 4 Units of Chemistry and 8 Units of Human Anatomy and Physiology. The Chemistry course has a math prerequisite. The students are generally mature, (average age =27 years) highly motivated and accustomed to working at the level of rigor required in the CVT Curriculum. Some have Bachelor's and/or Master's Degrees and most classes have 1 – 2 foreign-trained physicians.

Students comment that the most helpful strategy to promote success is the provision of 2nd year students to serve as tutors to 1st year and especially in the labs where they acquire and refine their skills in performing specialized diagnostic medical tests.

In some cases students who struggle with the English language have been referred to the ESL department for assistance.

3.3 If state of federal licensing/registration examinations govern the program, please comment on student success.

Graduates sit for national registry exams administered by Cardiovascular Credentialing International, (CCI) for Invasive, Noninvasive and Vascular Technology, or the American Registry of Diagnostic Medical Sonography (ARDMS) for Noninvasive and Vascular Technology only. Graduates who pass the national registry typically have greater access to jobs and begin work at a higher level on the salary schedule.

Passing the national registry exam is not a requirement to enter clinical practice, so the numbers of students taking the exam each year varies. The exam is costly and rigorous, and some excellent students opt not to take the exam despite advice and encouragement from the faculty to do so. There is currently a national movement to accredit clinical labs (the same as educational programs) to ensure quality of practice; this will likely lead to mandatory registry or licensure of the profession in the future. For years prior to 2006, CCI did not report the national average for the Invasive registry so that data is not available.

The table below demonstrates graduate performance over the past three years and shows that Grossmont graduates generally exceed the national average pass rate.

YEAR	SPECIALTY	GRADUATES	TOOK EXAM	PASSED EXAM	GROSSMONT AVERAGE	NATIONAL AVERAGE
2006	Invasive CVT	18	18	12	66.7%	69.2%
2006	Adult Echo	16	10	10	100.0%	72.8%
2006	CV Physics	16	12	11	92.6%	56.0%
2006	Vascular Physics	10	1	Ö	0	60.3%
2006	Vascular Technology	10	1	0	0	56.7%
2005	Invasive CVT	17	17	8	47.1%	Not reported
2005	Adult Echo	16	11	10	90.9%	55.7%
2005	CV Physics	16	13	8	61.5%	53.5%
2005	Vascular Physics	12	12	10	83.3%	64.4%

2005	Vascular Technology	12	5	4	80.0%	57.0%
2004	Invasive CVT	16	1	0	0	Unknown
2004	Adult Echo	18	6	6	100%	61.2%
2004	CV Physics	18	8	7	87.5 %	55.1%
2004	Vascular Physics	10	8	2	25.0%	56.5%
2004	Vascular Technology	10	7	7	100%	86.2%

3.4 Discuss strategies and/or activities that have been, can be, or will be used to promote/publicize the courses/department/program. Include activities your faculty have implemented to provide closer connections to primary, secondary and post secondary schools. Consider campus/district resources that have been useful. Using the Student Survey, comment on how students learned of this program.

The department uses a color brochure, an entry in the *Class Schedule* each semester, and weekly orientation meetings to publicize and promote the program. The orientation meetings are held in the CVT Office and include a tour of the lab and overview of some of the equipment used in diagnostic cardiovascular technology. Analysis of the Student Survey reveals the following as to how students learn about the availability of the program:

N = 92 Students surveyed

Note: Since students are able to select more than one option the total exceeds 100%.

Friend & Family member	58.3%
Grossmont Webpage	30.6%
Work referral	13.9%
Grossmont Catalog	12.5%
Grossmont Counselor	9.7%
Grossmont Instructor	6.9%
Cuyamaca College	2.8%
Presentation	
Public Media	2.8%

3.5 Referring to *Appendix 7*, Statistical Data, Outcomes Profiles, *Appendix 8*, Efficiency Report, and *Appendix 5*, Grade Distribution Summary Report, comment on <u>emerging trends</u> of course completion, success, retention, and enrollments.

Course Completion – Course completion rates average 94.1 percent and have been stable over the reporting period.

Success – Overall success rate for CVT students reported for gender, age and ethnicity is 91.7% and has been stable over the period reported.

Retention – The retention rate for CVT students when reported for gender, age and ethnicity is 94.1% and has been stable over the period reported.

Enrollments – Enrollments have remained stable since the program accepts the same number of students each year (54 Students) based on available lab stations, faculty, equipment and clinical sites available in San Diego County.

3.6 Referring to Appendix 9 if the department/program offers a major or certificate in the college catalog, comment on the trends regarding number of students who earn these degrees and/or certificates.

The number of degrees and certificates awarded each year has remained relatively consistent over the past 5 years. Degrees awarded averages 27 and certificates average 39. It should be noted that students who satisfy the requirements for the degree automatically are qualified to receive the certificate and most apply for both.

SECTION 4 – DEVELOPMENT OF HUMAN RESOURCES

In Appendix 10, complete Conference, Workshops, Staff Development and Sabbaticals forms.

4.1 Describe how participation in activities listed in *Appendix 10* have resulted in improvement in curriculum and instruction.

Attendance at local, regional and national workshops, conferences and symposia is critical to maintaining the curriculum current to the scope of practice. These meetings feature national and international speakers who present the findings of their research; clinical cases reports and in some cases live demonstrations of new methods used in the diagnosis and treatment of cardiovascular disease. The information is then translated into the curriculum as appropriate.

4.2 Forecast your staff development needs both within and outside of the institution.

Within the Institution – Continued support as student learning outcomes are developed and incorporated into the curriculum. Campus support for instructors to incorporate online/hybrid classes into the CVT Curriculum.

Outside the Institution – Continued support to fund registration, travel and accommodations for at least two instructors to attend national meetings each year on a rotating basis.

4.3 Describe how the members of the department/program are helping to shape the direction of the college (e.g., writing grants, serving on college/district committees, task forces, Academic representation, etc.).

Don Ridgway serves on the Health Professions Building Taskforce and the Academic Senate. Rick Kirby serves on as a member of the Academic Senate, Council of Chairs and the Division Council of Career/Technical Education and Workforce Development. He is also a member of the building taskforce and the Grossmont Health Care District building taskforce.

The other 3 full time, CVT faculty members are on tenure track and are not encouraged to volunteer for committees until the 3rd year of the process. They are instead encouraged to concentrate on teaching strategies, classroom management, student clinical placement, and student assessment methods.

4.4 Describe how the members of the department/program contribute to the community beyond the college, locally, statewide, and nationally.

Don Ridgway – Author of 2 textbooks which are used nationally, associate editor and contributor to a third book and a 4th book to be published in Spring 2008. Don also provides leadership for his students in the Vascular Track of the program to conduct annual vascular screening exams for members of "CLUB 65," a senior citizen's group associated with Sharp Grossmont Hospital.

4.5 Describe how decisions are made in your department/program.

Through a collegial process which typically begins with discussion at a faculty meeting or during professional development week. In so far as possible and where applicable, all decisions are measured against the program Mission Statement, "Academic Excellence through student-centered learning in a creative, supportive environment."

4.6 Describe how computer resources, such as the Internet, department and faculty web pages, and emails are used by faculty in the department/program.

The Internet is used extensively by the faculty to research the medical literature in course preparation, teaching materials acquisition and assignments for students. The department

web page is used by perspective students to learn about the structure and policies of the department and to communicate with the program coordinator and the faculty. Email is widely used throughout the department.

4.7 If your department/program has hiring equivalencies, explain the rationale and comment on alignment with Cuyamaca. Please list equivalencies in *Appendix 11*.

The hiring equivalencies used by the department are modeled after those required by State Chancellor's Office and incorporate the recommendations of the *Guidelines & Essentials* published by the Joint Review Committee on CVT Education. The *Guidelines & Essentials* require that teachers in an accredited program demonstrate competency in the scope of practice by passing a national registry exam administered by Cardiovascular Credentialing International (CCI) or the American Registry of Diagnostic Medical Sonographers (ARDMS). The minimum qualifications and equivalencies are included in Appendix 11.

4.8 List and describe the duties of classified staff, work study and student workers who are directly responsible to the department/program.

JoAnn Faulise was the Health Professions Student Specialist for many years and provided administrative support to the CVT Program, the Orthopedic Technology Program and the Speech Language Pathology Program. Her duties were myriad and included:

- Providing secretarial support to three program coordinators
- Routine clerical duties (answering phones, typing, preparing correspondence, maintaining student files, maintaining clinical logs, mailing, processing and filing student assessment reports, preparing state and national reports, preparing accreditation documents)
- Providing information about the programs to the public by a variety of means (mailing brochures, answering telephone questions, greeting and answering questions for walkins, responding to email messages, preparing materials for presentations to students and the public
- Development and maintenance of the Web pages for the 3 programs
- Accept and review student applications, transcripts and other information to determine compliance with program perquisites.
- Accept and review student physical and dental forms to assure program compliance and verify that CPR, Tbc, Drug Screening and Criminal Background Checks and Malpractice Insurance compliance requirements are met and on file prior to student assignment to clinical practicum.

JoAnn passed away in November 2008 following a protracted illness, and her position is currently filled by Leslie Lacher who is a temporary employee. The position will be filled on a permanent basis when college resources permit.

The department also shares with the other Health Professions Programs in the support provided by two Health Professions Laboratory Technicians, Pat Murray and Dan Lopez. The technicians provide services which include:

- Preparing labs and equipment
- Providing instructional equipment such as projectors, computers, sound amplification equipment
- Training and supervising work-study students in the performance of their duties
- Performing routine maintenance on equipment
- Providing inventory control, ordering and stocking consumable supplies

The department also hires 2nd year students to serve as tutors to 1st year students in the acquisition and refinement of basic clinical skills and to work in the Health Professions Computer Center. The number of tutors employed varies semester-to-semester. There are currently 16 students employed.

4.9 Discuss your staffing factors that influence the effectiveness of the program. Does your department/program need to decrease, maintain, or increase the number of full-time faculty? Support your response with enrollment trends, future outlook for your department/program and any information related to changes in the economy, business or human services needs. Include discussion of part-time vs. full-time ratios and dependence on overloads.

The optimal number of students for enrollment in the program each year is 54. This number is determined by the number of hospitals/clinical sites available in the San Diego area for clinical experience in the second year of the program and considers an attrition of approximately 10-12% in the first semester. Current staffing levels of 4 full time and 7 part time instructors are considered adequate for the instructional program at current enrollments.

Coordination of the program is a full time job but is routinely filled by a full time faculty member who also teaches classes in accordance with college policy. The CVT Coordinator is also responsible for coordinator support for the Telemetry Tech, Ortho Tech and Anesthesia Tech programs. While an increase in full time or part time faculty is not needed at this time, a full time position for the CVT Coordinator would be optimum for the overall effectiveness of the programs.

SECTION 5 – SCHEDULING EFFECTIVENESS AND ROOM UTILIZATION

Refer to Appendix 7 for efficiency. Enrollment will come from Data on Demand; Appendix 5 has the sections and class sizes. Appendix 12 shows % of max.

5.1 Using Appendices 7 and 8, comment on student success figures since the last program review. How does this compare to the campus-wide figures?

Percent Student Success

- a. Gender Overall success rate by gender over the past six years had a range of 88.9%
 94.8% and a mean of 91.4%. Retention of female students is slightly higher than males by less than 5 points in general.
- b. Age Success by age in the same period demonstrated a range of 88.9% 94.8% and a mean of 91.9%.
- c. Ethnicity Success by ethnicity for the same period demonstrated a range of 88.9% 94.8% with a mean of 91.8%.

The overall mean success rate for CVT courses is 91.7% which is significantly higher than that of the overall college average of 64.6%.

There is a general tendency that older students have higher success rates. The data indicates that students in the age range of 20-29 were most successful with regard to percent success.

Student success by ethnicity is listed in the following table:

Pacific Islander	100.0%
Asian	96.5%
White non-Hispanic	93.2%
Unknown	91.4%
Hispanic	90.8%
Other	89.4%
Filipino	86.9%
Black non-Hispanic	86.0%
American Indian-Alaskan	83.8%
Native	

Course Retention

Course retention CVT students for the reporting period averaged 94.1 percent compared to a college average of 78.2%. Female retention rates are generally higher than males. The highest retention by age is 25 – 29 years group. Retention by ethnicity percent rates tend to follow those for student success with Asian students slightly higher than all other groups and Hispanic being slightly lower.

5.2 Analyze and comment on any trends in enrollment, numbers of sections offered, average class size and efficiency.

The number of students that can be enrolled in the program is determined by faculty and laboratory resources and the number of clinical sites available for placement of 2nd year students in the San Diego area as noted earlier. Fifty-four students are accepted to begin training each Fall Semester, and there is a waiting list. Enrollments, numbers of sections average class size and efficiency have remained stable since our previous Program Review.

5.3 Comment on any sections that are historically under-enrolled and discuss strategies that might increase enrollment.

Not applicable. Please see 5.3 above.

5.4 Comment of the adequacy of facilities (e.g., does room size and configuration fit the teaching strategies?) and equipment for meeting instructional needs.

Classrooms for lecture classes are adequate for current enrollments. Some sections of lab are crowded but manageable. There is inadequate room to store equipment throughout the 300 North building which has a negative impact on all Allied Health Programs. Construction of the new Health Science building will address that issue.

5.5 How does room availability affect your enrollment?

Please see item 5.2 above.

5.6 Discuss alternatives your department/program has explored including off-site offerings.

If assignment to students for clinical experience is included in off-site offerings, the program obviously relies heavily on local area hospitals and clinics to support our instructional program. It would not be effective or efficient to offer the majority of our major classes off-site since many are related to medical instrumentation located on campus. Although a class may be designated as "lecture" in scope, it is not unusual for an instructor to bring an electrocardiograph, ultrasound machine, pacemaker or other medical device into the classroom to enhance learning.

5.7 Comment on the results of the Student Survey, *Appendix* 6, focusing on class times and facilities.

FACILITIES:

Classrooms – 92.2% of student strongly agree or agree that the classrooms are clean and in good repair.

Equipment – 15.6% of students strongly agree, 42.9% agree and 15.6% are neutral on the availability and currency of equipment. 26% of the students agree or strongly disagree. It should be noted that the equipment consists of highly supplicated medical instrumentation and most is state-of-the-art and is deemed by the faculty to be adequate to current enrollments. The currency and state of the equipment is currently at the highest level in the history of the program. The current need for equipment in the lab is for additional monitors for the lab tables in Room 349 and will be a priority in our request for FY 2008.

Computer Technology – The Health Professions Computer Center has been upgraded by Instructional Media Services at the close of the Fall 07 semester. When the student survey was conducted 72.8% of students responded that computer technology was adequate and that number is expected to rise following the recent upgrade.

Class Times – The CVT curriculum tototally integrated, and all students must be fully enrolled in the Spring and Fall courses as appropriate. The labs are used extensively and shared with ROP and Anesthesia Technology classes, leaving little flexibility of altering the class schedule. Lectures and labs must also be scheduled in consideration of student assignment to local hospitals for clinical practicum.

SECTION 6 - FISCAL PROFILE

6.1 Using Appendix 12, Subject WSCH Analysis Report: comment on trends reflected in the column "Earned WSCH/FTE(F)" for your overall department/program, and for specific courses over a five year period.

The overall WSCH/FTEF for the fall semesters were evaluated and the following data obtained:

Semester/Year	WSCH/FTEF		
Fall 01	284		
Fall 02	360		
Fall 03	366		
Fall 04	384		
Fall 05	356		

Analysis: The WSCH/FTEF has remained relatively consistent over the years Fall 02 through Fall 05. The increase from 284 to 360 from Fall 01 to Fall 02 was due to an additional course being added to the Invasive Track of the program.

6.2 Using Appendix 14, Fiscal Data; Outcomes Profile: analyze and comment on Earned WSCH/FTEF and Cost/FTES of the Department/Program.

Total WSCH grew from 3,567 to 4,372 from FY 01/02 to FY 02/03 and has remained consistent over the past 5 years. The average for that period is 4472. Cost/FTES has declined from \$4,192.08 to \$3,436.13 over the same period. The average is \$3,626.

6.3 If the department/program receives any outside financial support or subsidy, list those sources and the amount. Describe how the additional resources are used and how they relate to the regular college budget.

The department was awarded a Bridge to Salary Grant for \$100,000 by the Grossmont Healthcare District in August 2008. The funds have been used to provide a \$1,000/month stipend to 4 full time CVT faculty members. The funding will be adequate for 2 years of stipends. The Grossmont Foundation has conducted a campaign to raise funds, resulting in approximately \$19,000 in donations. These funds will be used to recruit and retain qualified faculty. The fund-raising effort is on-going. In addition, the department receives VATEA funds to support the instructional process. A total of \$9,360 was received in VATEA funds for FY 07/08 and they were used for tutors, supplies and equipment.

SECTION 7 - SUMMARY

- 7.1 Summarize department/program strengths and weaknesses in terms of:
 - teaching and learning
 - student access and success
 - development of human resources
 - fiscal stability

Teaching & Learning – The Cardiovascular Technology faculty are highly motivated to excellence in their profession. They are outstanding mentors for our students and work hard to maintain currency to the scope of practice and in turn insure their courses are maintained on the cutting edge of medical diagnostics and intervention. Learning is student centered, uses current teaching methodology and equipment, and is designed to promote critical thinking, which is absolutely essential for a Cardiovascular Technologist in clinical practice. Our campus labs are equipped with state-of-the-art medical instruments and students have access to millions of dollars worth of equipment through our clinical affiliates that is not available on campus. A portion of our advanced clinical labs are conducted at local hospitals by practicing technologists where students receive virtually one-on-one instruction in invasive diagnostic and interventional cardiology, and cardiac and vascular ultrasound. There are two physicians that serve as our Medical Directors and an outstanding Advisory Committee to provide guidance as to curriculum content and currency. The program has support from the medical equipment industry, who

<u>Fiscal Stability</u> — The CVT budget is adequate for current enrollment provided an answer can be found with regard to faculty salaries. We have been fortunate to share in a series of block grants and donations that bring our labs and equipment to state-of-the-art status. The skills necessary in diagnostic medical imaging cardiac interventional procedures require small labs and tutor support, which makes the average CVT lab rather costly when compared to labs conducted on campus.

SECTION 8 – CONCLUSIONS AND RECOMMENDATIONS

8.1 Make a rank-ordered list of department/program recommendations. These recommendations should be clearly based on the information included in Sections 1 through 7. Do not limit recommendations to only those dealing with resources.

Recruit and hire a replacement for the CVT Health Professions Specialist Begin training a member of the CVT faculty to assume the Program Coordinator position Continue the provision of qualified tutors to assist students in the acquisition and refinement of basic and advanced skill in diagnostic testing

Maintain the curriculum current to the scope of practice

Explore ways of encouraging students to maintain contact with the program and to participate in national registry exams

Complete the transition and physical relocation of the department to the new science building Develop selected components of the CVT curriculum into online or hybrid format Continue the existing and expand program linkages to the medical equipment industry in order to acquire state-of-the-art instrumentation to be used in lab practicum.

provide discounts on equipment and in some cases provide expensive medical instruments for our students. The most recent example was the donation of a \$63,000.00 ultrasound machine by Biosound Esaote, Inc.

The biggest challenge to teaching and learning in the past 6 years has continued to be the difficulty in recruiting and maintaining qualified faculty. Graduates of the program typically begin their career as a Cardiovascular Technologist at a higher salary than a beginning college teacher. When an experienced, qualified technologist is found who can also "teach," the program is unable to compete with the salaries paid in clinical practice which can average \$80,000 to \$90,000 per year base, plus additional income for being on call for emergency cases.

The other major challenge to the program in recent years has been the lack of space to store equipment, but that will be eliminated when the new science building is completed.

<u>Student Access & Success –</u> Graduates of the program are recruited by hospitals and clinics nationwide. They obtain good jobs with excellent salaries and benefits and make a tremendous contribution to the diagnosis and treatment of patients with cardiovascular disease. Many go on to be managers, writers, teachers, medical researchers, and sales or applications reps in the medical equipment industry. These positions are stable with little threat of layoff during times of economic down-turn. The program has graduates throughout the United States, Australia, New Zealand, England, and the Middle East.

Access to the program follows a standardized process of first-come-first-served upon documentation of completion of the prerequisite courses. The number of students accepted is determined by available resources on campus and the number of clinical sites in San Diego County. There is an approximate 2 year waiting list to enter the program.

<u>Development of Human Resources</u> - Cardiovascular Technology is a very technical and everchanging profession as new diagnostic and treatment modalities are incorporated into the scope of practice. In order for faculty to remain current in their specialty conference attendance where they can hear presentations on the latest findings in cardiovascular research, network with their peers and evaluate state-of-the-art instrumentation is essential.

One of the department activities for 2009/2010 focuses on exploring ways to develop selected components of the CVT curriculum in online or hybrid format and will require professional development for the faculty.

The current coordinator of the program has retired but returned to work until the faculty is stable at which time a new coordinator will be appointed and trained to assume the responsibilities of the department.

Appendix 1

Educational Master Plan LUUCULIOII PIUSCOL I IUII 4007 4000

Grossmont College Educational Master Plan 2007-2008

Record Updated. Thank you. You may print this page for your records.

Division:

Business and Professional Studies

Department:

Cardiovascular Technology

Director or Chair:

Rick Kirby

Program Description:

Cardiovascular Technologists participate in the performance of diagnostic tests and procedures in three specialty areas: Cardiac Catheterization, which utilizes invasive techniques to produce x-ray pictures of the heart and special devices to open blocked arteries and prevent heart attacks; Cardiac Ultrasound (echocardiography) studies; and Diagnostic Vascular Ultrasound both of which utilize non-invasive techniques to produce pictures of the heart and blood vessels. Students participate in lectures and labs on-campus as well as clinical experience at local hospitals. The program is accredited by the Commission on the Accreditation of Allied Health Programs (CAAHEP). Career opportunities are outstanding, offering excellent salaries and employment opportunities locally and throughout the nation. Cardiovascular Technology is a challenging and rewarding career, and provides an opportunity to use the latest in diagnostic and therapeutic technology to help patients with cardiovascular disease. Planning is currently underway for the new Health Professions building which will provide enhanced instructional delivery, a modern facility and increased storage space for equipment and supplies. This process will be a major focus for the department over the next 2-3 years.

Activity #1:

Recruit and hire a full time faculty member to replace the

instructor/coordinator who is retiring at the end of Spring 07.

Benefit:

Maintain the curriculum current to the scope of practice, meet

accreditation standards and provide for continuity of instruction with

the program.

Requirements:

Staffing - Faculty

Primary Strategic Goals:

4

Objective Goal:

4.1

Activity # 2:

Provide tutoring in basic and advanced academic and diagnostic

techniques.

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Benefit:

Assist student in acquiring clinical skills and preparing them for the

workplace. Student report that access to qualified tutors in a major

contributor to their success int he program.

Requirements:

Primary Strategic Goal:

1

Objective Goal:

1.1

Activity #3:

Contiune the review and revision of the CVT curriclum to include

Student Learning Outcomes per current college policy.

Benefit:

Insure maximum efficiency of the program in serving students and preparing them for new careers in the Allied Health Professions.

Requirements:

Curriculum Development

Staff Development>

Primary Strategic Goal:

1

Objective Goal:

1.2

Activity #4:

Provide assistance to the ROP Department in the development of

the Anesthesia Monitoring Program. Assist with curriculum

development and acquisition of staff as appropriate.

Benefit:

Respond to a community request to fill a need for training for

Anesthesia Monitoring technicians.

Requirements:

Curriculum Development

Equipment

Facilities

Staffing - Faculty

Primary Strategic Goal:

2

Objective Goal:

2.1

Activity #5:

Continue the review and revision of the CVT Core Curriclum to

assure currency to the scope of practice.

Benefit:

Maintain the curriculum current to the scope of practice and

prepare graduates for the workplace.

Requirements:

Curriculum Development

Staff Development

Primary Strategic Goal:

1

Objective Goal:

1.1

Additional Planning:

N/A

Accomplishment #1:

Recruited and hired a full time instructor to replace a staff member

who became a Division Dean.

Primary Strategic Goal:

4

Objective:

4.1

Accomplishment #2:

Provided on-campus tutoring to students in the first year of the

program and advanced tutoring to students in the specialty tracks

in local clinical facilities.

Primary Strategic Goal:

1

Objective:

1.1

Accomplishment #3:

Acquired 2 state of the art ultrasound instruments for use in

campus labs.

Primary Strategic Goal:

1

Objective:

1.1

Accomplishment #4:

Assisted in the initiation of the ROP Anesthesia Monitoring

Technician courses.

Primary Strategic Goal:

1

Objective:

1.1

Accomplishment #5:

Provided advanced seminars by a content expert on transcranial

and abdominal Doppler techniques.

Primary Strategic Goal:

6

Objective:

6.3

Accomplishment #6:

None

Primary Strategic Goal:

0

Objective:	0			and the process of th	
Accomplishment #7:	None				
Primary Strategic Goal:	0				
Objective:	0				
Accomplishment #8:	None				
Primary Strategic Goal:	0				
Objective:	0				
Accomplishment #9:	None				
Primary Strategic Goal:	0				
Objective:	0				
Accomplishment #10:	None	·			
Primary Strategic Goal:	0				
Objective:	0				
Other Accomplishments:	None				

- Display goal & objective descriptions
- Return to EMP home page
- Close window

Appendix 2

Previous Program Review Summary

PROGRAM REVIEW COMMITTEE Cardiovascular Technology **SUMMARY EVALUATION**

COMMITTEE	RECOMMENDATION			MAINTAIN		
	COST/FTES	\$2221.74	\$2398.84	\$2456.71	\$2816.48	\$2775.55
SPRING SEMESTER	WSCH/FTEF % of MAX WSCH	%92	%62	77%	%62	%08
SPRING	WSCH/FTEF	354.88	374.82	386.34	364.39	476.58
FALL SEMESTER	VSCH/FTEF % of MAX WSCH	92%	%68	%56	92%	86%
FALLS	WSCH/FTEF	395.44	379.17	405.74	385.26	360.70
SCHOOL	YEAR	1995-96	1996-97	1997-98	1998-99	99-2000

The program review committee commends the department for:

- 1. State-of-the-art lab allowing students hands-on experience with cardiac catheterization, echocardiogram and diagnostic vascular ultrasound.
- Development of an effective learning community among your students, developing leadership skills and community involvement.
- Increased student accessibility through extra computer lab hours and the availability of online resources and web supported instruction. .
- Four innovative faculty members.
- Good connections with counseling and use of the Health Services Office. 6.5
 - High school outreach efforts.

The committee offers the following recommendations:

Continue work to develop a GE package that better meets the needs of your students. 1. %

With other health sciences, utilize campus and district resources for marketing and public awareness of the program in the

Advance the planning process for the new and remodeled health sciences building. დ. 4.

Seek general fund support for tutoring.

College President

Appendix 3

Catalog Descriptions

Sphiect & Number	Title	Units
1 ss Office		
'iecnnology 100	Basic Keyboarding	1
Business Office	, .	
Technology 118	Integrated Office Projects	1
Business Office	Comprehensive Word,	
Technology 120	Level I	1
or		
Business Office		
Technology 114	Essential Word	(1)
Business Office	Comprehensive Word,	
Technology 121	Level II	1
Business Office	Comprehensive Word,	
Technology 122	Level III	1
Business Office	Comprehensive Excel,	
Technology 123	Level I	1
or		
Business Office		
Technology 115	Essential Excel	(1)
Business Office	Comprehensive Excel,	
Technology 124	Level II	1
Business Office	Comprehensive Excel,	
Technology 125	Level III	1
Business Office	Comprehensive Access,	
Technology 126	Level I	1
or		
Business Office		
Technology 116	Essential Access	(1)
Business Office	Comprehensive Access,	
Technology 127	Level II	1
Business Office	Comprehensive PowerPoin	
iology 129	Level I	1
C.		
Business Office		
Technology 117	Essential PowerPoint	(1)
Business Office	Comprehensive PowerPoin	_
Technology 130	Level II	1
	Total	12

Virtual Office Assistant

This Certificate of Proficiency prepares students to create and run a virtual office business. More specifically, the certificate prepares a student to act as an entrepreneur specializing in administrative services provided to clients in a virtual environment. All classes must be completed with a "C" grade or higher.

Subject & Number	Title	Units
Business Office		
Technology 100	Basic Keyboarding	1.0
Business Office	Building Keyboarding	
Technology 103A	Skill I	0.5
Business Office	Building Keyboarding	
Technology 103B	Skill II	0.5
Business Office		
Technology 111	Virtual Assistant	2.0
Business Office		
Technology 115	Essential Excel	1.0
Business Office	Comprehensive Word,	
Technology 120	Level I	1.0
F ss Office	Comprehensive Word,	
lology 121	Level II	1.0

Business Office		
Technology 150	Using Microsoft Publisher	1.0
Business 141	Entrepreneurship: Managing	
	a New Business	3.0
Business 146	Marketing	3.0
	Total	14

Cardiovascular Technology

See page 11 for special admission procedures and criteria.

The Cardiovascular Technology program at Grossmont College is a two-year course of study leading to an Associate in Science Degree or Certificate of Achievement. Graduates of the program enter the health care profession as Cardiovascular Technologists.

Cardiovascular Technology students are educated in the theory and clinical application of diagnostic tests used in the diagnosis and treatment of cardiovascular disease. The first year of the program is composed of a core curriculum of courses which encompass physics, mathematics, cardiovascular anatomy, physiology and pathophysiology, medical electronics and instrumentation, and the application of clinical cardiovascular techniques.

In the second year of the program students select one of three subspecialties for concentrated study which includes lecture, laboratory and clinical experience courses. The subspecialties are:

1. Invasive Cardiovascular Technology

Invasive Cardiovascular Technologists work in cardiac catherization laboratories where they assist the cardiologist in performing diagnostic and treatment procedures such as cardiac catheterization, balloon angioplasty, electrocardiographic monitoring and angiography. The technologist assists in the catheterization procedure, operates various electronic instruments and calculates clinical information for interpretation by the physician.

2. Noninvasive Cardiovascular Technology (Cardiac Ultrasound)

Noninvasive Cardiovascular Technologists perform cardiac ultrasound studies and specialized electrocardiographic procedures. The information obtained from these clinical studies is used by the physician to evaluate patients for cardiovascular disease and designing comprehensive treatment plans. The technologist performs the studies, operates various electronic instruments and calculates clinical information for interpretation by the physician.

3. Vascular Technology (Vascular Ultrasound)

Vascular Technologists perform ultrasound and other diagnostic studies to evaluate arterial and venous obstructions, which put patients at risk for loss of circulation in their extremities or a major stroke. The information obtained from these clinical studies is used by vascular surgeons and neurologists to establish the diagnosis, access the severity of existing disease, and to design comprehensive treatment plans. The

technologist performs the studies, operates various electronic instruments and calculates clinical information for interpretation by the physician.

In addition to the College application, a special application for Cardiovascular Technology is required. Applications to the Cardiovascular Technology Program are accepted between October 1 and March 31. Contact the Counseling Office and the Cardiovascular Technology Office (room 340B) for further information.

As of the Fall 2006 semester, students accepted to the Cardiovascular Program may be required to undergo a background check and/or a urine drug screening test before starting the program or being placed at a clinical site. The cost of these procedures may be \$70-\$120. The student will be responsible for paying these fees. Failure to pass either or both of these procedures may interfere with clinical placement and/or acceptance of the student into the program.

Career Opportunities

Cardiac Catheterization
Cardiographic Technician
Cardiology Technologist
Cardiopulmonary Technician
Diagnostic Medical Sonographer
Echocardiographer
Electrocardiograph Technician
Related Department Manager
Vascular Technologist

General Education Requirements for Cardiovascular Technology Majors

Courses in bold print are either prerequisites or required for the Certificate of Achievement.

Area A - Language And Rationality

Three courses (a minimum of nine units) are required in written communication, oral communication, and quantitative reasoning. At least ONE course must be taken from EACH of the following three sections:

1. Written Communication

Must be completed with a "C" or "CR" grade or higher to satisfy the competency requirement. English 110, 117, 120, 124

2. Oral Communication

Must be completed with a "C" or "CR" grade or higher to satisfy the competency requirement.

Communication 120, 122

3. Quantitative Reasoning

Must be completed with a "C" or "CR" grade or higher to satisfy the competency requirement.

Anthropology 215

Biology 215

Mathematics 103, 110, 120, 125, 126, 150, 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285

Philosophy 125, 130

Psychology 215

Sociology 215

Area B - Natural Sciences

Two natural science courses (a minimum of seven units) are required. One course must contain a laboratory.

Courses with an asterisk are laboratory only.

Courses not containing a laboratory component are underlined.

Anthropology <u>130</u>
Astronomy <u>110</u>, 112*
Biology 105, 110, <u>112</u>, <u>114</u>, <u>118</u>, 120, **140**, **141**, 142*, **144**, **145**, 152, <u>210</u>, 211*, 212*, <u>220</u>, 221*
Chemistry <u>110</u>, 113, **115**, 116, 120, 141, 142, 231, 232
Geography <u>120</u>, 121*, <u>140</u>
Geology <u>104</u>, <u>110</u>, 111*, <u>121</u>, 210, 220, 230
Oceanography <u>112</u>, 113*
Physical Science <u>110</u>, 111*
Physics 110, 130, 131, 140, 240, 241
Science <u>110</u>

Area C - Humanities

One humanities course (a minimum of three units) is required.

American Sign Language 120, 121, 140, 220 Arabic 120, 121, 220, 221, 250, 251 Art 100, 120, 124, 126, 129, 140, 141, 142, 143, 145, 154, Chinese 120, 121 Communication 124, 135, 137, 144, 145 Cross-Cultural Studies 122, 123, 126, 134, 144, 147, 149, 152, 236, 237, 238 Dance 110 English 112, 118, 122, 134-135-136-137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 234, 235, 236, 237, 238, 241, 242, 275, 276, 277 French 120, 121, 152, 220, 221, 250, 251 German 120, 121, 220, 221, 250, 251 History 100, 101, 105, 106, 126, 135, 137, 147 Humanities 110, 120, 125, 130, 135, 160, 170 Italian 120, 121, 220, 221, 250, 251 Japanese 120, 121, 149, 220, 221, 250, 251 Media Communications 111, 189

Music 110, 111, 114, 115, 116, 117, 189 Philosophy 110, 112, 114, 116, 118, 140, 141, 150 Religious Studies 120, 130, 140, 150

Russian 120, 121, 220, 221, 250, 251

Spanish 120, [120A* and 120B*], 121, 122, 123, 141, 145, 220, 221, 250, 251 Theatre Arts 110, 120, 121, 143, 144, 189

*Spanish 120A and Spanish 120B are equivalent to one semester of Spanish 120.

Area D - Social Sciences

One social science course (a minimum of three units) is required.

Administration of Justice 110 Anthropology 120 Child Development 125 Communication 128 Cross-Cultural Studies 114, 115, 118, 119, 124, 125, 128, 130, 131, 132, 133, 145, 150, 151, 154, 155, 180, 181 Economics 110, 120, 121 Family Studies 115, 120 Geography 106, 130, 170 Health Education 120, 122 Health Science 110 History 108, 109, 114, 115, 118, 119, 122, 123, 124, 127, 150, 151, 154, 155, 180, 181 Media Communications 110 Political Science 120, 121, 124, 130, 140, 150, 160 Psychology 120, 125, 130, 132, 134, 138, 170 Sociology 114, 120, 125, 130, 138, 140

A--- E - Fitness/Wellness

I urses involving physical exercise and/or dance are required. They can be chosen from the exercise science and/or dance courses listed below:

Dance 072A-B-C-D, 074A-B-C-D, 078A-B-C-D, 080A, 080B, 080C, 080D, 081A, 081B, 082A-B-C-D, 084A, 084B, 084C, 084D, 088A, 088B, 088C, 088D, 094A-B-C-D, 099A-B-C-D, 116, 117

Exercise Science 001, 002, 003, 005, 006, 007, 008, 009, 021, 023, 027, 028, 029, 030, 035, 037, 039, 040, 043A, 043B, 043C, 044, 060A, 060B, 060C, 072A-B-C-D, 074A-B-C-D, 076A, 076B, 076C, 078A-B-C-D, 094A-B-C-D, 116, 117, 120A, 120B, 120C, 121, 125A, 125B, 125C, 130A, 130B, 130C, 135, 136, 150, 155A, 155B, 155C, 156, 170A, 170B, 170C, 171A, 171B, 171C, 172A, 172B, 172C, 175A, 175B, 175C, 180, 185A, 185B, 185C, 200, 201

Associate Degree Major Requirements

(Major Code: 52053)

Note: All courses in the major must be completed with a "C" grade or higher.

Core Curriculum

All students complete the following courses in the first year of the program:

year of the program:		
Subject & Number	Title	Units
Cardiovascular	Physical Principles of	
Technology 100	Medicine I	2
Canada vascular		
ology 101	Cardiovascular Physiology	I 4
Carmovascular		
Technology 102	Medical Instrumentation I	4
Cardiovascular	Laboratory Practicum	
Technology 103	and Proficiency Testing I	2
Cardiovascular	Physical Principles of	
Technology 110	Medicine II	2
Cardiovascular		
Technology 111	Cardiovascular Physiology	II 4
Cardiovascular	-	
Technology 112	Medical Instrumentation II	4
Cardiovascular	Laboratory Practicum	
Technology 113	and Proficiency Testing II	2
Cardiovascular	· · ·	
Technology 114	Cardiovascular Pharmacolo	gy 2
Cardiovascular		
Technology 120	Clinical Practicum I	3
	Total	29

Area of Emphasis Invasive

Subject & Number	Title	Units
Cardiovascular	Diagnostic Procedures,	
Technology 202	Invasive Cardiology	4
Cardiovascular		
Technology 205	Clinical Practicum II	5
Cardiovascular	Invasive Medical	
Technology 207	Instrumentation I	2
C vascular	X-Ray Physics and	
ology 208	Cardiovascular Angiograp	hy 2
Cardiovascular	Interventional Procedures,	•
Technology 212	Invasive Cardiology	4

Cardiovascular Technology 215 Cardiovascular Technology 217	Clinical Practicum III Invasive Medical Instrumentation II	5
Cardiovascular Technology 218	Intracardiac Electrophysiology	2
	Total Total Required Plus General Education and Elective Requirements	26 55

Area of Emphasis Noninvasive

Subject & Number	Title U	nits
Cardiovascular		
Technology 200	Medical Instrumentation III	3
Cardiovascular	Diagnostic Procedures I,	
Technology 201	Noninvasive Cardiology	4
Cardiovascular	0,7	
Technology 205	Clinical Practicum II	5
Cardiovascular		
Technology 210	Medical Instrumentation IV	3
Cardiovascular	Diagnostic Procedures II,	
Technology 211	Noninvasive Cardiology	4
Cardiovascular	C,	
Technology 215	Clinical Practicum III	5
	Total	24
	Total Required	53
	Plus General Education and	
	Elective Requirements	

Area of Emphasis Vascular Technology

	•	
Subject & Number	Title	Units
Cardiovascular		
Technology 200	Medical Instrumentation III	3
Cardiovascular	Diagnostic Procedures I,	
Technology 203	Vascular Technology	4
Cardiovascular		
Technology 205	Clinical Practicum II	5
Cardiovascular		
Technology 210	Medical Instrumentation IV	3
Cardiovascular	Diagnostic Procedures II,	
Technology 213	Vascular Technology	4
Cardiovascular		
Technology 215	Clinical Practicum III	5
	Total	24
•	Total Required	53
	Plus General Education and	l
	Elective Requirements	

Cardiovascular Technology

Certificate of Achievement

Any student who chooses to complete only the Cardiovascular Technology prerequisites and core curriculum plus one of the areas of emphasis and the general education courses listed below qualifies for a Certificate of Achievement in Cardiovascular Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Title	Units
Interpersonal	
Communication	3
Public Speaking	(3)
College Composition	3
College Composition	
and Reading	(3)
Total	6
Plus Core Curriculum	29
Plus One Area of Emphasis	24-26
Total Required	59-61
	Interpersonal Communication Public Speaking College Composition College Composition and Reading Total Plus Core Curriculum Plus One Area of Emphasis

CHEMISTRY

The chemistry major prepares students to transfer to fouryear institutions for continued study in the field of chemistry. The program outlined below fulfills the lower division requirements recommended by the American Chemical Society and is typical of requirements at fouryear transfer institutions. Students should consult the catalog of the transfer institution for specific requirements. Assistance in planning a course of study is available at the Counseling Center or from the Department of Chemistry faculty. The department recommends that students take one year of Russian or German (or high school equivalency) for credit under Humanities Area C, Section 2 of the associate degree general education requirements.

Career Opportunities

Analytical Chemist* Biochemist* Biotechnologist* Chemistry Teacher* Dentist* Environmental Technician+ Forensic Specialist* Industrial Health Engineer* Laboratory Technician Pharmacist* Physician* Research Chemist* Safety Manager Sanitarian+ Veterinarian* Water-quality Analyst *Bachelor's Degree or higher required. +Bachelor Degree normally recommended.

Associate Degree Major Requirements

(Major Code: 50026)	. •	
Subject & Number	Title	Units
Chemistry 141	General Chemistry I	5
Chemistry 142	General Chemistry II	5
Chemistry 231	Organic Chemistry I	5
Chemistry 232	Organic Chemistry II	5
	Total	20

Select SIXTEEN (16) units from the following courses:

` '	0	
Subject & Number	Title Un	its
Mathematics 180	Analytic Geometry &	
	Calculus I	5
Mathematics 280	Analytic Geometry &	
	Calculus II	4
Mathematics 281	Intermediate Calculus	4
Mathematics 285	Linear Algebra and	
	Differential Equations	3
Physics 140	Mechanics of Solids	4
Physics 240	Electricity, Magnetism & Heat	4
Physics 241	Light, Wave Motion and	
•	Modern Physics	4
	Total	16
	Total Required	36
	Plus General Education and	
	Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in Chemistry. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

CHILD DEVELOPMENT

The Child Development curriculum is designed to prepare students for employment as teachers, directors and aides in preschools and child care centers, including infant/toddler and school age children. Coursework in this program meets the educational components of the Department of Social Services license regulations for child care programs. The associate degrees in Child Development meet the educational requirements of Teacher, Master Teacher and Site Supervisor Child Development Permits.

These courses are also appropriate for family child care providers, parents, administrators, health care professionals, and others working with children. Courses are designed to partially meet lower division course preparation for students planning a bachelor's degree in Child Development.

siness Office Technology 299 d Topics in Some Second Seco

units, 3-9 hours

:requisite: Varies with topic.

ected topics in Business Office hnology not covered by regular alog offerings. Course content and it credit to be determined by the rision of Business and Professional idies in relation to community/dent need(s) and/or available staff. It be offered as a seminar, lecture or oratory class.

CARDIO'ASCULAR 'ECHNOLOGY CVTE)

ARDIOVASCULAR TECHNOLOGY O † hysical Principles of ine I

nours lecture

erequisite: A "C" grade or higher in plogy 144 and 145 or equivalent.

requisite: Concurrent enrollment in TE 101, 102 and 103.

course in the mathematics and ysical principles of medicine ecifically applicable to the field of ridiovascular Technology. Designed students enrolled in the Cardioscular Technology Program, the urse includes studies in the use of athematic formulas and physics used evaluate the hemodynamics of the ridiovascular system.

ARDIOVASCULAR TECHNOLOGY 11 † ardiovascular Physiology I

ınits, 4 hours lecture

'erequisite: A "C" grade or higher in plogy 144 and 145 or equivalent.

rrequisite: Concurrent enrollment in TE 100, 102 and 103.

study of the anatomy, physiology, ructural relationships, and pathoysiology of the human heart and scular system. Designed for students in the Cardiovascular

ncentrate on specialized terminology, rdiac anatomy, electrocardiography, d hemodynamics.

CARDIOVASCULAR TECHNOLOGY 102 † Medical Instrumentation I

4 units, 2 hours lecture, 6 hours laboratory **Prerequisite:** A "C" grade or higher in Biology 144 and 145 or equivalent.

Corequisite: Concurrent enrollment in CVTE 100, 101 and 103.

An integrated course in medical electronics and instrumentation for the cardiovascular technology student. The course will emphasize the concepts of electrical safety, the clinical application of electronic instruments and devices used in cardiovascular medicine, and the characteristics, recording, and measurement of bioelectric signals. *Transfers to CSU*

CARDIOVASCULAR TECHNOLOGY 103 † Laboratory Practicum and Proficiency Testing I

2 units, 1 hour lecture, 3 hours laboratory

Propagatisite: A "C" grade or higher in

Prerequisite: A "C" grade or higher in Biology 144 and 145 or equivalent.

Corequisite: Concurrent enrollment in CVTE 100, 101 and 102.

A practicum course designed to insure competency in the basic skills required in the clinical practice of cardiovascular technology. Students acquire skills in the performance of indirect blood pressure measurement, ultrasound imaging of the heart and vascular system, and calculation of specified hemodynamic parameters.

Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 104 † Electrocardiographic Theory

3 units, 3 hours lecture

Corequisite: Concurrent enrollment in CVTE 105.

A study of the electrocardiographic theory and principles required to perform basic 12-lead electrocardiograms. Instruction in ECG graph interpretation to identify cardiac rate, axis, arrhythmias, myocardial infarctions and ischemia. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 105 † Electrocardiographic Technique

2 units, 6 hours laboratory

Corequisite: Concurrent enrollment in CVTE 104.

A course in the practical application of the technique for recording and interpreting standard electrocardiograms. Students will perform and interpret electrocardiograms in an oncampus laboratory setting and be assigned to lab rotations in local clinical facilities for a portion of the semester. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 106 † Advanced Electrocardiographic Studies

5 units, 4 hours lecture, 3 hours laboratory **Prerequisite:** A "C" grade or higher in

CVTE 104 and 105 or equivalent.

A study of the theory, clinical application and hospital administrative requirements associated with cardiac arrhythmia and heart block recognition; and their correlation to cardiac stress testing, pacemaker evaluation, ambulatory ECG recording and Electrocardiographic telemetry. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 107 † Introduction to Clinical Practicum I

1 unit, 1 hour lecture

Prerequisite: A "C" grade or higher in all first semester classes of the CVTE Core Curriculum (CVTE 100, 101, 102 and 103).

Corequisite: Concurrent enrollment in CVTE 110, 111, 112 and 113.

A course to introduce Invasive, Noninvasive and Noninvasive Vascular Technology students enrolled in the Cardiovascular Technology Program to the clinical environment. The course is designed to acquaint the student with the day-to-day activities in the clinical environment and to enable them to select a subspecialty within the broad arena of Cardiovascular Technology. *Transfers to CSU*

† This course meets all Title 5 standards for Associate Degree Credit.

CARDIOVASCULAR TECHNOLOGY 108 † Advanced Cardiac Monitoring

2 units, 2 hours lecture

Prerequisite: A "C" grade or higher in CVTE 106.

A study of the advanced cardiac dysrhythmias that Cardiac Monitoring Technicians are required to know before employment can be obtained in this field. Special attention will be given lifethreatening dysrhythmias along with techniques for distinguishing between aberrant rhythms and life-threatening dysrhythmias. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 110 † Physical Principles of Medicine II

2 units, 2 hours lecture

Prerequisite: A "C" grade or higher in all first semester classes of the CVTE Core Curriculum (CVTE 100, 101, 102 and 103).

Corequisite: Concurrent enrollment in CVTE 111, 112 and 113.

This course is a continuation of Cardiovascular Technology 100 with emphasis on the physical characteristics of sound, ultrasound, and Doppler ultrasound as utilized in medical diagnostic testing. The course explores the physics involved in the formation, propagation, and reflection of sound and ultrasound, the characteristics of the various types of transducers used in echocardiography and vascular duplex scanning, and the mathematical techniques employed in the use of ultrasound to measure and calculate hemodynamic function indices. Transfers to CSU

Cardiovascular Technology 111 † Cardiovascular Physiology II

4 units, 4 hours lecture

Prerequisite: A "C" grade or higher in all first semester classes of the CVTE Core Curriculum (CVTE 100, 101, 102 and 103).

Corequisite: Concurrent enrollment in CVTE 110, 112 and 113.

A continuation of Cardiovascular Technology 101, Cardiovascular Physiology I, with emphasis on electrocardiographic arrhythmia recognition, the anatomy, physiology, and pathophysiology of specified congenital heart disease, the structure and function of the arterial, venous, capillary and pulmonary circulations and the techniques for measuring and/or calculating specified hemodynamic function indices. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 112 † Medical Instrumentation II

4 units, 2 hours lecture, 6 hours laboratory **Prerequisite:** A "C" grade or higher in all first semester classes of the CVTE Core Curriculum (CVTE 100, 101, 102 and 103). **Corequisite:** Concurrent enrollment in CVTE 110, 111 and 113.

A continuation of basic principles in medical electronics and instrumentation, this course will emphasize the issues of medical signal transduction, conditioning and recording. The application of computer technology in analog to digital conversion, digital to analog conversion and medical data logging will also be studied. This course also surveys the types of medical electronics and instrumentation utilized in testing throughout the hospital and presents their clinical results. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 113 † Laboratory Practicum and Proficiency Testing II

2 units, 1 hour lecture, 3 hours laboratory **Prerequisite:** A "C" grade or higher in all first semester classes of the CVTE Core Curriculum (CVTE 100, 101, 102 and 103).

Corequisite: Concurrent enrollment in CVTE 110, 111 and 112.

This course is a continuation of Cardiovascular Technology 103, Laboratory Practicum and Proficiency Testing I. It is designed to provide lecture and laboratory practicum necessary to develop cognitive and manipulative skills in the clinical operation of specified cardiovascular instrumentation, and in the performance of diagnostic tests. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 114 † Cardiovascular Pharmacology

2 units, 2 hours lecture

Prerequisite: A "C" grade or higher in all second semester classes of the CVTE Core Curriculum (CVTE 110, 111, 112 and 113).

This course introduces the concepts of drug classification, pharmacokinetics, delivery systems, drug interactions and dosage. A survey of all drug categories will be presented, but emphasis will be placed on cardiac and vascular medications. Drugs administered during cardiovascular procedures is the focus of this course.

Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 120 † Clinical Practicum I

3 units, 1 hour lecture, 6 hours laboratory **Prerequisite:** A "C" grade or higher in all second semester classes of the CVTE Core Curriculum (CVTE 110, 111, 112 and 113).

This course provides an introduction to cardiovascular diagnostic testing in the clinical environment. Elements of routine patient care, the patienttechnologist relationship, and the professional relationship between the physician and the technologist in clinical practice will be defined. Students are assigned to clinical experiences in local hospitals in addition to on-campus lecture and laboratory classes. This course is offered during the summer between the first and second years of the Cardiovascular Technology Program. Transfers to CSU

† This course meets all Title 5 standards for Associate Degree Credit.

\SCULAR TECHNOLOGY 198 sed Tutoring

its, 50 hours

equisite: Official enrollment in smont College.

course uses a variety of educational s to assist students with various ning needs. It could be used to ngthen prerequisite skills prior to olling in a specific course or to ive supplemental assistance while olled in another course. The course be repeated with different content. is a no fee/no credit course.

PRIOVASCULAR TECHNOLOGY 199 ecial Studies or jects in Cardiovascular chnology

ınits, 3-9 hours

requisite: Consent of instructor.

vidual study, research or projects in field of cardiovascular technology er instructor guidance. Written orts and periodic conferences ured. Content and unit credit to be ermined by student/instructor ferences and/or division. May be eated for a maximum of nine units.

ASCULAR TECHNOLOGY 0 T

edical Instrumentation III

its, 2 hours lecture, 3 hours laboratory requisite: A "C" grade or higher in all ses in the second semester of the liovascular Technology Core Curriculum TE 110, 111, 112 and 113), and CVTE 114

equisite: Concurrent enrollment in E 205 and 201 or 203.

ourse of instruction on the theory, bration, operation and clinical lication of specified diagnostic lical instrumentation. The lecture tion of the course explores the tionship of components of the lical history and physical mination to diagnostic test findings, introduces the student to the lication of diagnostic instrumentain medical research. The laboratory ion provides advanced instruction in performance of specified diagnostic s in noninvasive and vascular mology. isfers to CSU

CARDIOVASCULAR TECHNOLOGY 201 t

Diagnostic Procedures, **Noninvasive Cardiology**

4 units, 3 hours lecture, 3 hours laboratory Prerequisite: A "C" grade or higher in all

classes in the second semester of the CVTE Core Curriculum (CVTE 110, 111, 112 and 113), and CVTE 114 and 120.

Corequisite: Concurrent enrollment in CVTE 205, 207 and 208.

A course of instruction in the specialized techniques of noninvasive cardiovascular testing and the evaluation of cardiovascular disease. Lectures will stress the performance and analysis of the echocardiogram, the relationship of echocardiographic findings to cardiac pathology and the measurement and calculation of specified hemodynamic parameters. Laboratory sessions are conducted in noninvasive cardiac laboratories in local hospitals with advanced instruction in M-Mode and two-dimensional echocardiography. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 202 †

Diagnostic Procedures I, **Invasive Cardiology**

4 units, 3 hours lecture, 3 hours laboratory Prerequisite: A "C" grade or higher in all classes in the second semester of the CVTE Core Curriculum (CVTE 110, 111, 112 and 113), and CVTE 114 and 120.

Corequisite: Concurrent enrollment in CVTE 205, 207 and 208.

This course provides advanced study in medical electronics and instrumentation, focusing on devices utilized in invasive cardiology. Emphasis will be placed upon advanced physiologic recording devices, blood pressure transducers, cardiac output measurement systems, fluid delivery and routing systems, as well as mechanical injector systems. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 203 +

Diagnostic Procedures I, Vascular Technology

4 units, 3 hours lecture, 3 hours laboratory Prerequisite: A "C" grade or higher in all classes in the second semester of the CVTE Core Curriculum (CVTE 110, 111, 112 and 113), and CVTE 114 and 120.

Corequisite: Concurrent enrollment in CVTE 200 and 205.

A course of instruction in the specialized techniques of noninvasive testing of the human vascular system and the evaluation of vascular pathophysiology. Lectures will stress the performance and analysis of vascular ultrasound scanning, spectral analysis and the interpretation of scanning and nonscanning modalities for vascular testing. Laboratory sessions are conducted in vascular laboratories in local hospitals, with instruction in techniques of duplex scanning of the cerebrovascular and lower-extremity vasculature.

Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 205 † **Clinical Practicum II**

5 units, 15 hours laboratory

Prerequisite: A "C" grade or higher in all classes in the second semester of the CVTE Core Curriculum (CVTE 110, 111, 112 and 113), and CVTE 114 and 120.

Corequisite: Concurrent enrollment in CVTE 200 or CVTE 207 and 201 or 202 or 203.

A laboratory course providing clinical practicum with emphasis on the calibration and operation of medical instrumentation used in the Invasive, Noninvasive and Vascular Laboratories in local hospitals and clinics with which the CVT Program is affiliated. The performance of specified diagnostic tests, calculation of hemodynamic data, and professional performance in the clinical environment will be stressed. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 207 † Invasive Medical Instrumentation I

2 units, 2 hours lecture

Prerequisite: A"C" grade or higher in all classes in the second semester of the Cardiovascular Technology Core Curriculum (CVTE 110, 111, 112, and 113), and CVTE 114 and 120.

Corequisite: Concurrent enrollment in CVTE 202, 205 and 208.

A course of instruction in the theory, calibration, operation and clinical application of specified diagnostic medical instrumentation with emphasis on the relationship of findings in the medical history to diagnostic test findings, and introduces the student to the application of diagnostic instrumentation in medical research. *Transfers to CSU*

CARDIOVASCULAR TECHNOLOGY 208 † X-Ray Physics

and Cardiovascular Angiography

2 units, 2 hours lecture, 1 hour laboratory **Prerequisite:** A "C" grade or higher in all classes in the second semester of the Cardiovascular Technology Core Curriculum (CVTE 110, 111, 112, and 113), and CVTE 114 and 120.

Corequisite: Concurrent enrollment in CVTE 202, 205 and 207.

A course providing advanced study in medical electronics and instrumentation which focuses on imaging technologies, utilized in invasive cardiology. Emphasis will be placed upon understanding the x-ray imaging chain, x-ray physics, cardiovascular angiographic projections, analog and digital cine angiographic techniques, fluoroscopy techniques, optical principles, intravascular ultrasound and Doppler techniques. Additional emphasis is placed on data collection, analysis and interpretation of clinical patterns. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 210 † Medical Instrumentation IV

3 units, 2 hours lecture, 3 hours laboratory **Prerequisite:** A "C" grade or higher in CVTE 200, 205 and 201 or 203.

Corequisite: Concurrent enrollment in CVTE 211 or 213 and 215.

A continuation of Cardiovascular Technology 200, Medical Instrumentation III, with emphasis on the theory, calibration, operation and clinical application of specified diagnostic testing. The lecture portion of the course provides an overview of biostatistics as applicable to medical research, continued exploration of the medical literature through reading and writing assignments, and a seminar on cardiovascular disease. The seminar is conducted by physicians and technologists from the three specialties of Cardiovascular Technology and is designed to review state of the art topics in the use of medical instrumentation in diagnostics and research. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 211 † Diagnostic Procedures II, Noninvasive Cardiology

4 units, 3 hours lecture, 3 hours laboratory **Prerequisite:** A "C" grade or higher in CVTE 200, 201 and 205.

Corequisite: Concurrent enrollment in CVTE 210 and 215.

This course is a continuation of Cardiovascular Technology 201, Diagnostic Procedures I, Noninvasive Cardiology. It is an advanced course in the techniques utilized in the diagnosis and serial follow-up of cardiovascular disease with emphasis on pulsed wave, continuous wave and color-flow Doppler techniques, conventional and echocardiographic stress testing and transesophageal echocardiography. *Transfers to CSU*

CARDIOVASCULAR TECHNOLOGY 212 † Interventional Procedures

Interventional Procedures, Invasive Cardiology

4 units, 3 hours lecture, 3 hours laboratory **Prerequisite:** A "C" grade or higher in CVTE 202, 205, 207 and 208.

Corequisite: Concurrent enrollment in CVTE 215, 217 and 218.

This course continues the advanced study of invasive cardiac medical electronics and instrumentation. Emphasis will be placed upon advance therapeutic procedures, including surgical interventions, angioplasty, stenting, atherectomy, laser, distal protection, valvuloplasty and gene therapy techniques. Mechanical suppor systems such as the intra aortic balloon pump and other ventricular assist devices will be introduced. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 213 † Diagnostic Procedures II, Vascular Technology

4 units, 3 hours lecture, 3 hours laboratory **Prerequisite:** A "C" grade or higher in CVTE 200, 203 and 205.

Corequisite: Concurrent enrollment in CVTE 210 and 215.

An advanced course of instruction in the specialized techniques of noninvasive testing of the human vascular system and the evaluation of vascular pathophysiology. Lectures will stress th performance and analysis of vascular ultrasound scanning, spectral analysis and the interpretation of scanning and nonscanning modalities for vascular testing. Laboratory sessions are conducted in vascular laboratories in local hospitals, with advanced instruction in techniques of duplex scanning of the cerebrovascular, lowerextremity, and abdominal vasculature. Transfers to CSU

This course meets all Title 5 standards for Associate Degree Credit.

ASCULAR TECHNOLOGY inical Practicum III

iits, 15 hours laboratory

requisite: A "C" grade or higher in TE 200 or 207, and 201 or 202 or 203, and

equisite: Concurrent enrollment in TE 210 or 217, and 211 or 212 or 213.

aboratory course providing a tinuation of clinical practicum with phasis on the acquisition and nement of skills in the calibration l operation of medical instrumenta-1 used in the invasive, noninvasive l vascular laboratories in local pitals and clinics. The performance pecific diagnostic tests, calculation of nodynamic data, and professional formance in the clinical environment l be stressed. Emphasis will be on solidating skills acquired in TE 205 into complete diagnostic dies, including qualitative diagnostic erpretations. nsfers to CSU

RDIOVASCULAR TECHNOLOGY 7 † vasive Medical nentation II F

ours lecture.

requisite: A"C" or "CR" grade or higher NTE 202, 205 and 207.

requisite: Concurrent enrollment in TE 212 and 215.

ontinuation of Cardiovascular hnology 207 with emphasis on the ory, calibration techniques, and ical application of specified gnostic testing. The course provides overview of biostatistics as plicable to medical research, tinued exploration of the medical rature through reading and writing ignments, and a seminar on diovascular disease. The seminar is ducted by physicians and anologists from the three specialties Cardiovascular Technology and is igned to review the current topics in dical instrumentation and research. nsfers to CSU

CARDIOVASCULAR TECHNOLOGY 218 † Intracardiac Electrophysiology

2 units, 2 hours lecture, 1 hour laboratory Prerequisite: A"C" grade or higher in CVTE 200 or 201 and 205 and 207 or 202 or

Corequisite: Concurrent enrollment in CVTE 212, 215 and 217.

This course provides advanced study in medical instrumentation, introducing the topic of intracardiac electrophysiology. The content includes procedures and case studies of intracardiac electrograms, which are used to map the electrical currents within the heart. Computerized analysis of these patterns helps the cardiologist select the most appropriate treatment for chronic arrhythmia including pacemaker technology and implantable cardioverter-defibrillators (ICD). A review of antiarrhythmic drug therapy will also be provided. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY Extended Experience in Clinical Practicum

1 unit, 3 hours laboratory

Prerequisite: A"C" grade or higher in CVTE 200 or 207 and 201 or 202 or 203, and 205.

A course designed to provide clinical experience in the application of invasive, noninvasive and vascular diagnostic techniques. Students are assigned to local clinical facilities where they participate in the performance of cardiac catheterization procedures, echocardiography and/or vascular duplex studies as determined by clinical specialty. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 230 t

Invasive Cardiovascular Technology Review

2 units, 2 hours lecture

Prerequisite: A"C" grade or higher in CVTE 215 or equivalent.

This course prepares the graduate of any Invasive Cardiovascular Technology Program to sit for the Cardiovascular Credentialing International (CCI) Invasive Registry Examination. The course is intended to serve graduates as well as working professionals that have equivalent work experience wishing to prepare for this credentialing examination. The course content reviews concepts in basic through advanced medical instrumentation, anatomy and physiology, cardiac pathophysiology, cardiovascular pharmacology, angiographic equipment and imaging techniques, hemodynamics and related diagnostic calculations. This course is offered on a Credit/No Credit basis only.

Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 240 t **Anesthesia Technology** Review

3 units, 3 hours lecture

This course is designed for anesthesia technicians and/or recent graduates of training programs who intend to sit for the American Society of Anesthesia Technologists and Technicians (ASATT) certification examination. A comprehensive review of anesthesia technology will be provided, from basic anatomy and physiology to pharmacology, instrumentation and troubleshooting of equipment. Transfers to CSU

CARDIOVASCULAR TECHNOLOGY 299 Selected Topics in Cardiovascular Technology

1-3 units, 3-9 hours

Prerequisite: Varies with topic.

Selected topics in cardiovascular technology not covered by regular catalog offerings. Course content and unit credit to be determined by the Division of Business and Professional Studies in relation to community/ student need(s) and/or available staff. May be offered as a seminar, lecture or laboratory class.

This course meets all Title 5 standards for Associate Degree Credit.

Appendix 4

Course Status

APPENDIX 4

4. Course Status

COURSE	When was	Status of Alignment with	TIME OFFERED	SEMESTER
AND	course last	Cuyamaca	TIME OTTERED	LAST OFFERED
NUMBER	updated?			LAIST OFFERED
CVTE 100	4/04	N/A	A	Fall 2007
CVTE 101	4/04	N/A	M	Fall 2007
CVTE 102	4/04	N/A	M, A	Fall 2007
CVTE 103	4/04	N/A	M, A	Fall 2007
CVTE 107	6/98	N/A	A	Spring 2008
CVTE 110	4/04	N/A	Α	Spring 2008
CVTE 111	4/04	N/A	M	Spring 2008
CVTE 112	4/04	N/A	M, A	Spring 2008
CVTE 113	4/04	N/A	M, A	Spring 2008
CVTE 114	4/05	N/A	Α	Summer 2008
CVTE 120	6/98	N/A	M, A	Summer 2008
CVTE 200	4/02	N/A	A	Fall 2007
CVTE 201	6/98 **	N/A	M, A	Fall 2007
CVTE 202	4/05	N/A	A	Fall 2007
CVTE 203	4/05	N/A	A	Fall 2007
CVTE 205	4/05	N/A	M, A	Fall 2007
CVTE 207	4/02	N/A	A	Fall 2007
CVTE 208	4/02	N/A	A	Fall 2007
CVTE 210	4/02	N/A	A	Spring 2008
CVTE 211	6/98 **	N/A	M, A	Spring 2008
CVTE 212	4/05	N/A	Α	Spring 2008
CVTE 213	4/06	N/A	A	Spring 2008
CVTE 215	4/06	N/A	M, A	Spring 2008
CVTE 217	4/02	N/A	A	Spring 2008
CVTE 218	4/02	N/A	A	Spring 2008
CVTE 225	4/05	N/A	M, A	Winter 2008
CVTE 230	4/02	N/A	Online	Spring 2008
CVTE 240	4/06	N/A	Online	Spring 2008

^{**}NOTE: CVTE 201 and CVTE 211 have been reviewed and submitted to the Instructional Operations Office in Fall 2006 and are awaiting review/approval by the Curriculum Committee.

Appendix 5

Grade
Distribution
Summary

•	G R O S S M O N T C O L L E G E GRADE DISTRIBUTION SUMMARY
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PAGE 22 SPRING 2001

BUSINESS AND PROFESSIONAL STUDIES	BUSINESS	NESS AND	D PROFESSIONAL STUDIES	王 S : :
S.T. WKS HRS A B C D F I CR NC	TOL M	TOTAL ENR	TOTAL WSCH INSTRUCTOR	
CVTE 104 ECG THEORY 3800N** 0.0 COURSE TOTAL	4	15	0.0 WORTH 0.0	PT
CVTE 105 ECG TECHNIQUES 3801N** 0.0 5 5 1 COURSE TOTAL	4	15	0.0 WORTH 0.0	PT
CVTE 106 ADVANCED ECG THEORY 3802N** 0.0 COURSE TOTAL	7	13	0.0 PASSMAN 0.0	XP
CVTE 107 INTRO CLINICAL PRACTICUM I 3803 1.0 7 1 COURSE TOTAL 7 1	തത	700 700		
CVTE 108 ADVANCED CARDIAC MONITORING 3804N** 8 0.0 COURSE TOTAL		н	0.0 PASSMAN 0.0	XP
CVTE 110 PHYSICAL PRIN MEDICINE II 3805 2.0 17 14 4 COURSE TOTAL 17 14 4	ᆔ	99 98	70.0 PASSMAN 70.0	
CVTE 111 CARDIOVASCULAR PHYSIOLOGY II 3806 4.0 18 15 2 COURSE TOTAL 18 15 2	ᆏᆏ	39 30 30	144.0 KIRBY 144.0	
CVTE 112 MEDICAL INSTRUMENTATION II 3808 8.0 7 9 3809 8.0 12 7 COURSE TOTAL 19 16	H	360 360 360	112.0 BUCKLEY 160.0 BUCKLEY 272.0	
CVTE 113 LAB PRACTICUM & PROFIC TEST II 3811 4.0 18 2 3812 4.0 15 2 COURSE TOTAL 33 2	нн	3118 3688	68.0 RIDGWAY 68.0 RIDGWAY 136.0	ХЪ
CVTE 198 SUPERVISED TUTORING - CVTE 3815 ** 16 0.0 COURSE TOTAL	H	н	0.0 KIRBY 0.0	
CVTE 210 MED INSTRUMENTATION IV 3816 5.0 19 3817 5.0 15 2 1 3819 5.0 14 2 COURSE TOTAL 48 4 2		2112 4 4	100.0 KIRBY 90.0 KIRBY 80.0 KIRBY 270.0	XP
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CVTE 211 DIAGNOSTIC PROCEDUR II-NON INV 3820 6.0 20 COURSE TOTAL 20			20 20	120.0 PASSMAN 120.0
CVTE 212 DIAGNOSTIC PROCEDURES II-INV 3822 6.0 15 3 COURSE TOTAL 15 3			18 18	108.0 BUCKLEY XP
CVTE 213 DIAGNOSTIC PROCED II-VASCULAR 3823 6.0 9 7 COURSE TOTAL 9 7			16 16	96.0 RIDGWAY 96.0
CVTE 215 CLINICAL PRACTICUM III 3825 15.0 51 3 COURSE TOTAL 51 3			5 7 7 4	810.0 KIRBY XP 810.0
CVTE 225 EXTEND EXP CLINICAL PRACTICUM 3827 3 16.0 24 COURSE TOTAL 24			3 27 27	65.8 PASSMAN XP
CVTE 299 INVASIVE CARDIO REVIEW COURSE 3828 COURSE TOTAL	18 18		88 118	18.0 BUCKLEY 18.0
SUBJECT TOTAL 261 65 8 1	20		16 371	2129.8

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PAGE 25 FALL 2002 BUSINESS AND PROFESSIONAL STUDIES G R O S S M O N T C O L L E G E GRADE DISTRIBUTION SUMMARY BUSINESS AND PROFESSIONAL STUDIES

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CVTE 210 MED INSTRUMENTATION IV COURSE TOTAL 27 2	(CONT"D)		31	155.0
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CVTE 225 EXTEND EXP CLINICAL PRACTICUM 3827 3 16.0 17 COURSE TOTAL 17	CUM		17	46.6 PASSMAN XP 46.6
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CVTE 101 CARDIOVASCULAR PHYSIOLOGY I 3902 4.0 24 15 6 4 COURSE TOTAL 24 15 6 4	വവ	554 54	212.0 KIRBY 212.0	
CVTE 102 MEDICAL INSTRUMENTATION I 3903 8.0 10 6 3904 8.0 8 9 3905 8.0 9 6 COURSE TOTAL 27 21	4 HD	2112 0894	152.0 BUCKLEY 144.0 BUCKLEY 128.0 BUCKLEY 424.0	X X P
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CVTE 104 ECG THEORY 3912N** 0.0 COURSE TOTAL	Н	15	0.0 WORTH 0.0	PT
CVTE 105 ECG TECHNIQUES 3913N** 0.0 10 4 COURSE TOTAL	H	15	0.0 WORTH 0.0	PT
CVTE 106 ADVANCED ECG THEORY 3914N** 0.0 13 6 3 COURSE TOTAL		23	0.0 PASSMAN 0.0	XP
CVTE 108 ADVANCED CARDIAC MONITORING 3915N** 0.0 14 6 2 1 COURSE TOTAL		23	0.0 PASSMAN 0.0	XP
CVTE 198 SUPERVISED TUTORING - CVTE 3916 ** 16 0.0 3917 ** 16 0.0 COURSE TOTAL	24	O 4	0.0 KIRBY 0.0 KIRBY 0.0	
CVTE 200 MEDICAL INSTRUMENTATION III 3918 5.0 14 4 3919 5.0 7 4 COURSE TOTAL 21 8	нн	3178 3178	90.0 KIRBY 60.0 KIRBY 150.0	XP
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CVTE 104 ECG THEORY 3825N** 0.0 COURSE TOTAL	Н				4	21	0.0 WORTH 0.0	PT
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CVTE 107 INTRO CLINICAL PRACTICUM I 3828 1.0 22 2 COURSE TOTAL 22 2	ਜਜ				ហហ	900 300		
CVTE 108 ADVANCED CARDIAC MONITORING 3829N** 0.0 14 3 COURSE TOTAL						17	0.0 PASSMAN 0.0	XP
CVTE 110 PHYSICAL PRIN MEDICINE II 3832 2:0 25 18 6 COURSE TOTAL 25 18 6	00					77 77		
CVTE 111 CARDIOVASCULAR PHYSIOLOGY II 3833 4.0 29 19 3 COURSE TOTAL 29 19 3						51 51	204.0 KIRBY 204.0	
CVTE 112 MEDICAL INSTRUMENTATION II 3835 8:0 11 9 3836 8:0 15 4 3837 8:0 6 6 COURSE TOTAL 32 19						2112 1200 1	160.0 BUCKLEY 152.0 BUCKLEY 96.0 BUCKLEY 408.0	ХЪ
CVTE 113 LAB PRACTICUM & PROFIC TEST II 3838 4.0 18 1 18 1 3839 4.0 16 3840 4.0 13 1 COURSE TOTAL 47 2	H H0					1280 21280	80.0 RIDGWAY 64.0 RIDGWAY 60.0 RIDGWAY 204.0	
CVTE 210 MED INSTRUMENTATION IV 3850 5.0 16 3852 5.0 10 2 COURSE TOTAL 26 2						2116 2826	80.0 KIRBY 60.0 KIRBY 140.0	ХЪ
CVTE 211 DIAGNOSTIC PROCEDUR II-NON INV 3854 6.0 16 COURSE TOTAL 16						16 16	96.0 PASSMAN 96.0	

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BUSINESS AND PROFESSIONAL STUDIES

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BUSINESS AND PROFESSIONAL STUDIES

	XP	XP	XP			XP				
TOTAL WSCH INSTRUCTOR	60.0 BUCKLEY 60.0	78.0 RIDGWAY 78.0	570.0 KIRBY 570.0	20.0 KIRBY 20.0	30.0 BUCKLEY 30.0	60.3 PASSMAN 60.3	40.0 BUCKLEY 40.0	0.0 PASSMAN 0.0	2042.3	
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CVTE 106 ADVANCED ECG THEORY 3827N** 0.0 COURSE TOTAL	4	16	0.0 PASSMAN 0.0	ХЪ
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CVTE 113 LAB PRACTICUM & PROFIC TEST II 3838		4113 7293	52.0 RIDGWAY 76.0 RIDGWAY 60.0 RIDGWAY 188.0	ΧÞ
CVTE 198 SUPERVISED TUTORING - CVTE 3844 ** 16 0.0 3845 ** 16 0.0 COURSE TOTAL	77	H0	0.0 KIRBY 0.0 KIRBY 0.0	
CVTE 210 MED INSTRUMENTATION IV 3850 5.0 18 3852 5.0 10 1 COURSE TOTAL 28 1		2118 218	90.0 KIRBY 55.0 KIRBY 145.0	XP
CVTE 211 DIAGNOSTIC PROCEDUR II-NON INV 3854 6.0 18 COURSE TOTAL 18		11 88	108.0 PASSMAN 108.0	
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CVTE 212 DIAGNOSTIC PROCEDURES II-INV (CONT"D) COURSE TOTAL 12 5			17	102.0	
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CVTE 215 CLINICAL PRACTICUM III 3857 COURSE TOTAL 46			44 94	690.0 KIRBY XP 690.0	0.
CVTE 217 INV MEDICAL INSTRUMENTATION II 3858 2.0 16 1 COURSE TOTAL 16 1			17	34.0 KIRBY 34.0	
CVTE 218 INTRACARDIAC ELECTOPHYSIOLOGY 3859 3.0 17 COURSE TOTAL 17			17	51.0 BUCKLEY 51.0	
CVTE 225 EXTEND EXP CLINICAL PRACTICUM 3861 3 16.0 26 COURSE TOTAL 26			28 26	71.3 PASSMAN XP	0.
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S.T. WKS HRS A B C D F I CR NC	TOTAL W ENR	TOTAL WSCH INSTRUCTOR	
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CVTE 101 CARDIOVASCULAR PHYSIOLOGY I 3902 4.0 26 19 4 COURSE TOTAL 26 19 4 3	22 22 33	220.0 KIRBY XP 220.0	£,
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PAGE 23 SPRING 2005	BUSINESS AND PROFESSIONAL STUDIES
GROSSMONT COLLEGE GRADE DISTRIBUTION SUMMARY	
GRD361 01-23-2007 08:23:09	BUSINESS AND PROFESSIONAL STUDIES

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CVTE 212 DIAGNOSTIC PROCEDURES II-INV (CONT"D) COURSE TOTAL 10 7				17	102.0
CVTE 213 DIAGNOSTIC PROCED II-VASCULAR 3856 6.0 5 7 COURSE TOTAL 5 7				175	72.0 RIDGWAY 72.0
CVTE 215 CLINICAL PRACTICUM III 3857 15.0 44 1 COURSE TOTAL 44 1				44 55	675.0 KIRBY XP 675.0
CVTE 217 INV MEDICAL INSTRUMENTATION II 3858 2.0 14 1 2 COURSE TOTAL 14 1 2			ਜਜ	88	36.0 KIRBY 36.0
CVTE 218 INTRACARDIAC ELECTOPHYSIOLOGY 3859 3.0 13 5 COURSE TOTAL 13 5				88 88	54.0 BUCKLEY XP 54.0
CVTE 225 EXTEND EXP CLINICAL PRACTICUM 3861 316.0 12 1 COURSE TOTAL 12 1				1133	35.7 BUCKLEY XP
CVTE 230 INVASIVE CARDIO TECH REVIEW 3862 2.0 COURSE TOTAL	11 18		нн	66 66	38.0 BUCKLEY 38.0
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CVTE 201 DIAGNOSTIC PROCED I-NON INV 3920 6.0 10 5 COURSE TOTAL 10 5		H	16 16	96.0 POTTER 96.0	XP
CVTE 202 DIAGNOS PROCED INVASIVE CARDIO 3921 6.0 14 4 COURSE TOTAL 14 4			118 188	108.0 BUCKLEY 108.0	XP
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G R O S S M O N '1 C O L L E G E GRADE DISTRIBUTION SUMMARY BUSINESS AND PROFESSIONAL STUDIES

PAGE 23 SPRING 2006

BUSINESS AND PROFESSIONAL STUDIES

S.T. WKS HRS A B C D	ŢŦ	Н	GR	NC	M TC	TAL	TOTAL WSCH INSTRUCTOR	
CVTE 106 ADVANCED ECG THEORY 3825N** 0.0 4 1 COURSE TOTAL	₽					Q	0.0 MARSHALL 0.0	ΡŢ
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PAGE 24 SPRING 2006 BUSINESS AND PROFESSIONAL STUDIES GROSSMONT COLLEGE GEGRADE DISTRIBUTION SUMMARY BUSINESS AND PROFESSIONAL STUDIES GRD361 07-07-2006 03:43:35

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PAGE 23 SPRING 2005	BUSINESS AND PROFESSIONAL STUDIES	TOTAL WSCH INSTRUCTOR
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GROSSMONT COLLEGE GRADE DISTRIBUTION SUMMARY

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CVTE 203 DIAGNOSTIC PROCEDURE I-PV 3922 6.0 6 5 1	í	12	72.0 RIDGWAY	

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Appendix 6

Results of Student Survey

Grossmont College Cardiovascular Technology Student Survey First Year Students Fall 2007 N=39

1. How many courses have you taken in this department at Grossmont College? (including this current course and any repeated courses)

	Frequency	Percent
Two	1	2.6
More than three	38	97.4
Total	39	100.0

2. Is your major in this department?

	Frequency	Percent
Yes	38	97.4
No	1	2.6
Total	39	100.0

3. How did you find out about this class? (mark all that apply)

	Frequency	Percent
Friend or family member	26	74.3
Grossmont webpage (online)	10	28.6
Work referral	6	17.1
Class schedule / College catalog	4	11.4
Grossmont College Instructor	3	8.6
Grossmont College Counselor	2	5.7
Public media (radio, TV, newspaper, ad)	1	2.9

*Note: Since respondents are able to select more than one option, the total percent may not equal 100. Percentage is based on the total number of students responding to this item (i.e., 35).

4. What is your reason(s) for taking courses in this department? (mark all that apply)

	Frequency	Percent
Required for major	20	55.6
Improve job skills	16	44.4
General interest	11	30.6
Would like to major in a related field	10	27.8
General education requirement	2	5.6
Prerequisit	2	5.6
Other	4	11.1

*Note: Since respondents are able to select more than one option, the total percent may not equal 100. Percentage is based on the total number of students responding to this item (i.e., 36).

4t. What is your reason(s) for taking this class? (other)

	Frequency
Career Goals	1
Career Training	1
Its of my interest	1
Take care of people	1
Total	39

5. Which of the following helped you learn the course material best? (mark all that apply)

	Frequency	Percent
Lecture	34	89.5
Handouts	33	86.8
Study groups	26	68.4
Quizzes	16	42.1
Homework	16	42.1
Slides, transparencies	16	42.1
Class discussion	13	34.2
Videos/DVDs	13	34.2
Computer lab	12	31.6
Textbook	12	31.6
Instructor /Class notes	12	31.6
Group work in class	9	23.7
Instructor website	7	18.4
Meeting(s) with instructor	4	10.5
Tutoring	4	10.5
Online discussion boards	1	2.6
Other	1	2.6

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,38)

5t. Which of the following helped you learn the course material best? (other)

	Frequency
Lab	1

6a. Please indicate your level of agreement with the following statements: The classrooms for this program are clean and in good repair.

	Frequency	Percent
Strongly agree	11	28.2
Agree	23	59.0
Neutral	2	5.1
Disagree	3	7.7
Total	39	100.0

6b. Please indicate your level of agreement with the following statements: The classroom equipment is maintained and up-to-date.

	Frequency	Percent
Strongly agree	4	10.3
Agree	20	51.3
Neutral	6	15.4
Disagree	9	23.1
Total	39	100.0

6c. Please indicate your level of agreement with the following statements: The computer technology used in the classroom is up-to-date.

	Frequency	Percent
Strongly agree	9	23.1
Agree	17	43.6
Neutral	9	23.1
Disagree	3	7.7
Don't Know	1	2.6
Total	39	100.0

6d. Please indicate your level of agreement with the following statements: The textbooks for this class were available in the bookstore when needed.

	Frequency	Percent
Strongly agree	5	12.8
Agree	21	53.8
Neutral	9	23.1
Disagree	4	10.3
Total	39	100.0

7. How satisfied are you with the availability of courses in this department?

	Frequency	Percent
Very satisfied	23	59.0
Satisfied	13	33.3
Neutral	2	5.1
Very dissatisfied	1 1	2.6
Total	39	100.0

8a. What would be your preferred start time(s) for courses to be offered? : Weekdays

	Frequency	Percent
Early Morning (7am-8am)	29	80.6
Morning/Afternoon (9am-3pm)	11	30.6
Evening: Monday-Thursday (4pm-9pm)	4	11.1
Evening: Friday (4pm- 9pm)	2	5.6
No preference	3	8.3

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,36)

8b. What would be your preferred start time(s) for courses to be offered? : Saturdays

	Frequency	Percent
Early Morning (7am-8am)	3	8.3
Morning/Afternoon (9am-3pm)	5	13.9
Evening (4pm-9pm)	2	5.6
No preference	6	16.7
Would not attend on Saturdays	19	52.8

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,36)

8c. What would be your preferred start time(s) for courses to be offered? : Sundays (if offered)

	Frequency	Percent
Early Morning (7am-8am)	2	6.1
Morning/Afternoon (9am-3pm)	1	3.0
Evening: Monday-Thursday (4pm-9pm)	2	6.1
No preference	5	15.2
Would not attend on Sundays	24	72.7

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,33)

9a. Please indicate how often you use each of the following campus resources: Assessment & Testing Center

	Frequency	Percent
Often: 2-4 times per week	4	12.9
Sometimes: once per week	3	9.7
Rarely: 1-2 times per semester	11	35.5
Never	13	41.9
Total	31	100.0
No Response	3	
N/A	5	
Total	39	

9b. Please indicate how often you use each of the following campus resources: Career Center

	Frequency	Percent
Sometimes: once per week	1	3.0
Rarely: 1-2 times per semester	9	27.3
Never	23	69.7
Total	33	100.0
No Response	2	
N/A	4	
Total	39	

9c. Please indicate how often you use each of the following campus resources: Counseling Office

	Frequency	Percent
Sometimes: once per week	2	5.9
Rarely: 1-2 times per semester	26	76.5
Never	6	17.6
Total	34	100.0
No Response	3	
N/A	2	
Total	39	

9d. Please indicate how often you use each of the following campus resources: English Writing Center

	Frequency	Percent
Sometimes: once per week	2	6.7
Rarely: 1-2 times per semester	5	16.7
Never	23	76.7
Total	30	100.0
No Response	3	
N/A	6	
Total	39	

9e. Please indicate how often you use each of the following campus resources: English Reading Center

	Frequency	Percent
Rarely: 1-2 times per semester	4	14.3
Never	24	85.7
Total	28	100.0
No Response	5	
N/A	6	i
Total	39	

9f. Please indicate how often you use each of the following campus resources: Health Services

	Frequency	Percent
Often: 2-4 times per week	1	2.7
Sometimes: once per week	1	2.7
Rarely: 1-2 times per semester	28	75.7
Never	7	18.9
Total	37	100.0
No Response	2	
Total	39	

9g. Please indicate how often you use each of the following campus resources: LRC: Computer Lab (SETL)

	Frequency	Percent
Often: 2-4 times per week	8	22.2
Sometimes: once per week	9	25.0
Rarely: 1-2 times per semester	11	30.6
Never	8	22.2
Total	36	100.0
No Response	1	
N/A	2	
Total	39	

9h. Please indicate how often you use each of the following campus resources: LRC: Instructional Media (video carrels)

	Frequency	Percent
Often: 2-4 times per week	2	6.5
Sometimes: once per week	4	12.9
Rarely: 1-2 times per semester	5	16.1
Never	20	64.5
Total	31	100.0
No Response	3	
N/A	5	
Total	39	

9i. Please indicate how often you use each of the following campus resources: LRC: Main Library

	Frequency	Percent
Often: 2-4 times per week	9	25.7
Sometimes: once per week	11	31.4
Rarely: 1-2 times per semester	10	28.6
Never	5	14.3
Total	35	100.0
No Response	1 1	
N/A	3	
Total	39	

9j. Please indicate how often you use each of the following campus resources: Math Study Center

	Frequency	Percent
Sometimes: once per week	1	3.4
Rarely: 1-2 times per semester	4	13.8
Never	24	82.8
Total	29	100.0
No Response	3	
N/A	7	
Total	39	

9k. Please indicate how often you use each of the following campus resources: Student Affairs Office

	Frequency	Percent
Sometimes: once per week	1	3.6
Rarely: 1-2 times per semester	8	28.6
Never	19	67.9
Total	28	100.0
No Response	4	
N/A	7	
Total	39	

91. Please indicate how often you use each of the following campus resources: Tutoring Center

	Frequency	Percent
Rarely: 1-2 times per semester	6	20.0
Never	24	80.0
Total	30	100.0
No Response	3	
N/A	6	
Total	39	

9n. Please indicate how often you use each of the following campus resources: Other

	Frequency
Computer Lab: " Very Effective"	1

10. Gender

	Frequency	Percent
Male	14	35.9
Female	25	64.1
Total	39	100.0

11. Age

	Frequency	P er cent
Under 20	1	2.6
20-24	6	15.4
25-29	11	28.2
30-49	20	51.3
50 or older	1	2.6
Total	39	100.0

12. Ethnicity

	Frequency	Percent
White, Non-Hispanic and not of Middle Eastern descent	22	61.1
Asian	5	13.9
Hispanic	5	13.9
Filipino	4	11.1
Total	36	100.0
No Response	3	
Total	39	

13. Primary Language

	Frequency	Percent
Chinese	1	2.6
English	32	84.2
Spanish	1	2.6
Other	4	10.5
Total	38	100.0
No Response	1	
Total	39	

13t. Primary Language (other)

	Frequency
Polish	1
Sinnola	1
Vietnamesse	1

Grossmont College Cardiovascular Technology Student Survey Second Year Srudents Fall 2007 N=38

1. How many courses have you taken in this department at Grossmont College? (including this current course and any repeated courses)

	Frequency	Percent
One	3	8.1
Three	1	2.7
More than three	33	89.2
Total	37	100.0
No Response	1	
Total	38	

2. Is your major in this department?

	Frequency	Percent
Yes	37	97.4
Undecided	1	2.6
Total	38	100.0

3. How did you find out about this class? (mark all that apply)

	Frequency	Percent
Friend or family member	16	48.5
Grossmont webpage (online)	12	36.4
Work referral	4	12.1
Class schedule / College catalog	5	15.2
Grossmont College Counselor	5	15.2
Grossmont College Instructor	2	6.1
Cuyamaca College presentation or special event. (teacher came to class, career day, campus activity)	2	6.1
Public media (radio, TV, newspaper, ad)	1	3.0

*Note: Since respondents are able to select more than one option, the total percent may not equal 100. Percentage is based on the total number of students responding to this item (i.e., 33).

4. What is your reason(s) for taking courses in this department? (mark all that apply)

	Frequency	Percent
Required for major	21	65.6
Improve job skills	13	40.6
General interest	9	28.1
Would like to major in a related field	8	25.0
General education requirement	2	6.3
Prerequisite	2	6.3
Fits my schedule	1	3.1
Other	5	15.6

^{*}Note: Since respondents are able to select more than one option, the total percent may not equal 100. Percentage is based on the total number of students responding to this item (i.e., 32).

4t. What is your reason(s) for taking this class? (other)

	Frequency
Career Choice	2
Career opportunities	1
New career	1
Prepare for new career	1

5. Which of the following helped you learn the course material best? (mark all that apply)

	Frequency	Percent
Lecture	31	83.8
Handouts	28	75.7
Textbook	23	62.2
Study groups	22	59.5
Quizzes	19	51.4
Homework	18	48.6
Instructor /Class notes	15	40.5
Group work in class	14	37.8
Slides, transparencies	14	37.8
Class discussion	13	35.1
Computer lab	12	32.4
Videos/DVDs	11	29.7
Instructor website	10	27.0
Tutoring	10	27.0
Computer presentations	6	16.2
Meeting(s) with instructor	5	13.5
Online discussion boards	2	5.4
Other	2	5.4

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,37)

5t. Which of the following helped you learn the course material best? (other)

	Frequency
Self instruction	1
Student centered learning	1

6a. Please indicate your level of agreement with the following statements: The classrooms for this program are clean and in good repair.

	Frequency	Percent
Strongly agree	11	28.9
Agree	26	68.4
Neutral	1	2.6
Total	38	100.0

6b. Please indicate your level of agreement with the following statements: The classroom equipment is maintained and up-to-date.

	Frequency	Percent
Strongly agree	8	21.1
Agree	13	34.2
Neutral	6	15.8
Disagree	6	15.8
Strongly disagree	5	13.2
Total	38	100.0

6c. Please indicate your level of agreement with the following statements: The computer technology used in the classroom is up-to-date.

	Frequency	Percent
Strongly agree	14	36.8
Agree	16	42.1
Neutral	5	13.2
Disagree	3	7.9
Total	38	100.0

6d. Please indicate your level of agreement with the following statements: The textbooks for this class were available in the bookstore when needed.

	Frequency	Percent
Strongly agree	14	36.8
Agree	21	55.3
Neutral	1	2.6
Disagree	1	2.6
Don't Know	1	2.6
Total	38	100.0

7. How satisfied are you with the availability of courses in this department?

	Frequency	Percent
Very satisfied	25	65.8
Satisfied	10	26.3
Neutral	3	7.9
Total	38	100.0

8a. What would be your preferred start time(s) for courses to be offered? : Weekdays

	Frequency	Percent
Early Morning (7am-8am)	20	64.5
Morning/Afternoon (9am-3pm)	12	38.7
Evening: Monday-Thursday (4pm-9pm)	7	22.6
Evening: Friday (4pm- 9pm)	1	3.2
No preference	8	25.8

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,31)

8b. What would be your preferred start time(s) for courses to be offered? : Saturdays

	Frequency	Percent
Early Morning (7am-8am)	4	11.1
Morning/Afternoon (9am-3pm)	5	13.9
No preference	2	5.6
Would not attend on Saturdays	27	75.0

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,36)

8c. What would be your preferred start time(s) for courses to be offered? : Sundays (if offered)

	Frequency	Percent
Morning/Afternoon (9am-3pm)	2	5.7
No preference	2	5.7
Would not attend on Sundays	33	94.3

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,35)

9a. Please indicate how often you use each of the following campus resources: Assessment & Testing Center

	Frequency	Percent
Sometimes: once per week	5	14.7
Rarely: 1-2 times per semester	14	41.2
Never	15	44.1
Total	34	100.0
No Response	2	
N/A	2	
Total	38	

9b. Please indicate how often you use each of the following campus resources: Career Center

	Frequency	Percent
Rarely: 1-2 times per semester	12	35.3
Never	22	64.7
Total	34	100.0
No Response	1	
N/A	3	
Total	38	

9c. Please indicate how often you use each of the following campus resources: Counseling Office

	Frequency	Percent
Rarely: 1-2 times per semester	21	60.0
Never	14	40.0
Total	35	100.0
N/A	3	
Total	38	

9d. Please indicate how often you use each of the following campus resources: English Writing Center

	Frequency	Percent
Sometimes: once per week	1	2.9
Rarely: 1-2 times per semester	5	14.3
Never	29	82.9
Total	35	100.0
No Response	1	
N/A	2	
Total	38	

9e. Please indicate how often you use each of the following campus resources: English Reading Center

	Frequency	Percent
Sometimes: once per week	1	2.9
Rarely: 1-2 times per semester	3	8.8
Never	30	88.2
Total	34	100.0
No Response	2	
N/A	2	
Total	38	

9f. Please indicate how often you use each of the following campus resources: Health Services

	Frequency	Percent
Sometimes: once per week	1	2.7
Rarely: 1-2 times per semester	24	64.9
Never	12	32.4
Total	37	100.0
N/A	1 1	
Total	38	

9g. Please indicate how often you use each of the following campus resources: LRC: Computer Lab (SETL)

	Frequency	Percent
Often: 2-4 times per week	6	17.1
Sometimes: once per week	11	31.4
Rarely: 1-2 times per semester	14	40.0
Never	4	11.4
Total	35	100.0
N/A	3	
Total	38	

9h. Please indicate how often you use each of the following campus resources: LRC: Instructional Media (video carrels)

	Frequency	Percent
Sometimes: once per week	5	14.7
Rarely: 1-2 times per semester	6	17.6
Never	23	67.6
Total	34	100.0
No Response	1	
N/A	3	
Total	38	

9i. Please indicate how often you use each of the following campus resources: LRC: Main Library

	Frequency	Percent
Often: 2-4 times per week	8	22.9
Sometimes: once per week	13	37.1
Rarely: 1-2 times per semester	11	31.4
Never	3	8.6
Total	35	100.0
N/A	3	
Total	38	

9j. Please indicate how often you use each of the following campus resources: Math Study Center

	Frequency	Percent
Sometimes: once per week	1	2.9
Rarely: 1-2 times per semester	6	17.6
Never	27	79.4
Total	34	100.0
No Response	1	
N/A	3	
Total	38	

9k. Please indicate how often you use each of the following campus resources: Student Affairs Office

	Frequency	Percent
Sometimes: once per week	3	8.6
Rarely: 1-2 times per semester	12	34.3
Never	20	57.1
Total	35	100.0
No Response	1 1	
N/A	2	
Total	38	

91. Please indicate how often you use each of the following campus resources: Tutoring Center

	Frequency	Percent
Often: 2-4 times per week	1	2.9
Sometimes: once per week	2	5.9
Rarely: 1-2 times per semester	3	8.8
Never	28	82.4
Total	34	100.0
No Response	1	
N/A	3	
Total	38	

9n. Please indicate how often you use each of the following campus resources: Other

	Frequency
Computer Lab: "Sometimes"	1

10. Gender

	Frequency	Percent
Male	17	44.7
Female	21	55.3
Total	38	100.0

11. Age

	Frequency	Percent
20-24	6	16.2
25-29	6	16.2
30-49	23	62.2
50 or older	2	5.4
Total	37	100.0
No Response	1	
Total	38	

12. Ethnicity

	Frequency	Percent
White, Non-Hispanic and not of Middle Eastern descent	21	60.0
Hispanic	4	11.4
Filipino	4	11.4
Asian	2	5.7
Black	2	5.7
Middle Eastern	2	5.7
Total	35	100.0
No Response	3	
Total	38	

13. Primary Language

	Frequency	Percent
English	27	73.0
Russian	4	10.8
Arabic/Chaldean	1	2.7
Spanish	1	2.7
Other	4	10.8
Total	37	100.0
No Response	1	
Total	38	

13t. Primary Language (other)

	Frequency
French	1
Tagalog	1
Vietnamese	1

Grossmont College Cardiovascular Technology Student Survey First and Second Year Students Fall 2007

N=77

1. How many courses have you taken in this department at Grossmont College? (including this current course and any repeated courses)

	Frequency	Percent
One	3	3.9
Two	1	1.3
Three	1	1.3
More than three	71	93.4
Total	76	100.0
No Response	1	
Total	77	

2. Is your major in this department?

	Frequency	Percent
Yes	75	97.4
No	1	1.3
Undecided	1	1.3
Total	77	100.0

3. How did you find out about this class? (mark all that apply)

	Frequency	Percent
Friend or family member	42	58.3
Grossmont webpage (online)	22	30.6
Work referral	10	13.9
Class schedule / College catalog	9	12.5
Grossmont College Counselor	7	9.7
Grossmont College Instructor	5	6.9
Cuyamaca College presentation or special event. (teacher came to class, career day, campus activity)	2	2.8
Public media (radio, TV, newspaper, ad)	2	2.8

*Note: Since respondents are able to select more than one option, the total percent may not equal 100. Percentage is based on the total number of students responding to this item (i.e., 72).

4. What is your reason(s) for taking courses in this department? (mark all that apply)

	Frequency	Percent
Required for major	41	57.7
Improve job skills	29	40.8
General interest	20	28.2
Would like to major in a related field	18	25.4
General education requirement	4	5.6
Prerequisit	4	5.6
Transfer	1	1.4
Other	9	12.7

^{*}Note: Since respondents are able to select more than one option, the total percent may not equal 100. Percentage is based on the total number of students responding to this item (i.e., 71).

4t. What is your reason(s) for taking this class? (other)

	Frequency
Prepare for new career	2
Career Choice	2
Career goals	1
Career opportunities	1
Career Training	1
Its of my interest	1
Take care of people	1

5. Which of the following helped you learn the course material best? (mark all that apply)

	Frequency	Percent
Lecture	65	94.2
Handouts	61	88.4
Study groups	48	69.6
Textbook	35	50.7
Quizzes	35	50.7
Homework	34	49.3
Slides, transparencies	32	46.4
Instructor /Class notes	27	39.1
Class discussion	26	37.7
Computer lab	24	34.8
Videos/DVDs	24	34.8
Group work in class	23	33.3
Instructor website	17	24.6
Computer presentations	14	20.3
Tutoring	14	20.3
Meeting(s) with instructor	9	13.0
Online discussion boards	3	4.3
Other	3	4.3

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,69)

5t. Which of the following helped you learn the course material best? (other)

	Frequency
Lab	1
Self instruction	1
Student centered learning	1

6a. Please indicate your level of agreement with the following statements: The classrooms for this program are clean and in good repair.

	Frequency	Percent
Strongly agree	22	28.6
Agree	49	63.6
Neutral	3	3.9
Disagree	3	3.9
Total	77	100.0

6b. Please indicate your level of agreement with the following statements: The classroom equipment is maintained and up-to-date.

	Frequency	Percent
Strongly agree	12	15.6
Agree	33	42.9
Neutral	12	15.6
Disagree	15	19.5
Strongly disagree	5	6.5
Total	77	100.0

6c. Please indicate your level of agreement with the following statements: The computer technology used in the classroom is up-to-date.

	Frequency	Percent
Strongly agree	23	29.9
Agree	33	42.9
Neutral	14	18.2
Disagree	6	7.8
Don't Know	1	1.3
Total	77	100.0

6d. Please indicate your level of agreement with the following statements: The textbooks for this class were available in the bookstore when needed.

	Frequency	Percent
Strongly agree	19	24.7
Agree	42	54.5
Neutral	10	13.0
Disagree	5	6.5
Don't Know	1 1	1.3
Total	77	100.0

7. How satisfied are you with the availability of courses in this department?

	Frequency	Percent
Very satisfied	48	62.3
Satisfied	23	29.9
Neutral	5	6.5
Very dissatisfied	1	1.3
Total	77	100.0

8a. What would be your preferred start time(s) for courses to be offered? : Weekdays

	Frequency	Percent
Early Morning (7am-8am)	49	66.2
Morning/Afternoon (9am-3pm)	23	31.1
Evening: Monday-Thursday (4pm-9pm)	11	14.9
Evening: Friday (4pm- 9pm)	3	4.1
No preference	11	14.9

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,74)

8b. What would be your preferred start time(s) for courses to be offered? : Saturdays

	Frequency	Percent
Early Morning (7am-8am)	7	9.5
Morning/Afternoon (9am-3pm)	10	13.5
Evening (4pm-9pm)	2	2.7
No preference	6	8.1
Would not attend on Saturdays	46	62.2

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,74)

8c. What would be your preferred start time(s) for courses to be offered? : Sundays (if offered)

	Frequency	Percent
Early Morning (7am-8am)	2	2.7
Morning/Afternoon (9am-3pm)	3	4.1
Evening: Monday-Thursday (4pm-9pm)	2	2.7
No preference	7	9.5
Would not attend on Sundays	57	77.0

Note: Since respondents are able to select more than one option, the total percent may not be equal to 100. Percentages are based on the total number of respondents to this item (i.e.,74)

9a. Please indicate how often you use each of the following campus resources: Assessment & Testing Center

	Frequency	Percent
Often: 2-4 times per week	4	6.2
Sometimes: once per week	8	12.3
Rarely: 1-2 times per semester	25	38.5
Never	28	43.1
Total	65	100.0
No Response	5	
N/A	7	
Total	77	

9b. Please indicate how often you use each of the following campus resources: Career Center

	Frequency	Percent
Sometimes: once per week	1	1.5
Rarely: 1-2 times per semester	21	31.3
Never	45	67.2
Total	67	100.0
No Response	3	
N/A	7	
Total	77	

9c. Please indicate how often you use each of the following campus resources: Counseling Office

	Frequency	Percent
Sometimes: once per week	2	2.9
Rarely: 1-2 times per semester	47	68.1
Never	20	29.0
Total	69	100.0
No Response	3	
N/A	5	
Total	77	

9d. Please indicate how often you use each of the following campus resources: English Writing Center

	Frequency	Percent
Sometimes: once per week	3	4.6
Rarely: 1-2 times per semester	10	15.4
Never	52	80.0
Total	65	100.0
No Response	4	
N/A	8	
Total	77	

9e. Please indicate how often you use each of the following campus resources: English Reading Center

	Frequency	Percent
Sometimes: once per week	1	1.6
Rarely: 1-2 times per semester	7	11.3
Never	54	87.1
Total	62	100.0
No Response	7	
N/A	8	
Total	77	

9f. Please indicate how often you use each of the following campus resources: Health Services

	Frequency	Percent
Often: 2-4 times per week	1	1.4
Sometimes: once per week	2	2.7
Rarely: 1-2 times per semester	52	70.3
Never	19	25.7
Total	74	100.0
No Response	2	
N/A	1 1	
Total	77	

9g. Please indicate how often you use each of the following campus resources: LRC: Computer Lab (SETL)

	Frequency	Percent
Often: 2-4 times per week	14	19.7
Sometimes: once per week	20	28.2
Rarely: 1-2 times per semester	25	35.2
Never	12	16.9
Total	71	100.0
No Response	1	
N/A	5	
Total	77	

9h. Please indicate how often you use each of the following campus resources: LRC: Instructional Media (video carrels)

	Frequency	Percent
Often: 2-4 times per week	2	3.1
Sometimes: once per week	9	13.8
Rarely: 1-2 times per semester	11	16.9
Never	43	66.2
Total	65	100.0
No Response	4	
N/A	8	
Total	77	

9i. Please indicate how often you use each of the following campus resources: LRC: Main Library

	Frequency	Percent
Often: 2-4 times per week	17	24.3
Sometimes: once per week	24	34.3
Rarely: 1-2 times per semester	21	30.0
Never	8	11.4
Total	70	100.0
No Response	1 1	
N/A	6	
Total	77	

9j. Please indicate how often you use each of the following campus resources: Math Study Center

	Frequency	Percent
Sometimes: once per week	2	3.2
Rarely: 1-2 times per semester	10	15.9
Never	51	81.0
Total	63	100.0
No Response	4	
N/A	10	
Total	77	

9k. Please indicate how often you use each of the following campus resources: Student Affairs Office

	Frequency	Percent
Sometimes: once per week	4	6.3
Rarely: 1-2 times per semester	20	31.7
Never	39	61.9
Total	63	100.0
No Response	5	
N/A	9	
Total	77	

9l. Please indicate how often you use each of the following campus resources: Tutoring Center

	Frequency	Percent
Often: 2-4 times per week	1	1.6
Sometimes: once per week	2	3.1
Rarely: 1-2 times per semester	9	14.1
Never	52	81.3
Total	64	100.0
No Response	4	
N/A	9	
Total	77	

9m. Please indicate how often you use each of the following campus resources: Other

	Frequency
Computer Lab: " Very Effective"	1
Computer Lab: "Sometimes"	1

10. Gender

	Frequency	Percent
Male	31	40.3
Female	46	59.7
Total	77	100.0

11. Age

	Frequency	Percent
Under 20	1	1.3
20-24	12	15.8
25-29	17	22.4
30-49	43	56.6
50 or older	3	3.9
Total	76	100.0
No Response	1	
Total	77	

12. Ethnicity

	Frequency	Percent
White, Non-Hispanic and not of Middle Eastern descent	43	60.6
Hispanic	9	12.7
Filipino	8	11.3
Asian	7	9.9
Black	2	2.8
Middle Eastern	2	2.8
Total	71	100.0
No Response	6	
Total	77	

13. Primary Language

	Frequency	Percent
English	59	78.7
Russian	4	5.3
Spanish	2	2.7
Arabic/Chaldean	1	1.3
Chinese	1	1.3
Other	8	10.7
Total	75	100.0
No Response	2	
Total	77	

13t. Primary Language (other)

	Frequency
Vietnamese	2
French	1
Polish	1
Sinnola	1
Tagalog	1

Statistical Data: Outcomes Profile

					Enr	ollment	by Ethni					
	Fall	2001	Fall	2002	Fall	2003	Fall 2004		Fall 2005		Fall 2006	
Ethnicity	N	N % N %			N	%	N	%	N	%	N	%
Asian	45	8.0	70	10.4	67	8.7	46	6.8	49	7.1	75	9.0
Black non-Hispanic	50	8.9	53	7.8	61	7.9	65	9.6	56	8.2	55	6.6
Filipino	76	13.6	63	9.3	65	8.5	63	9.3	78	11.4	82	9.8
Hispanic	62	11.1	102	15.1	94	12.2	89	13.1	98	14.3	119	14.3
American Indian/Alaskan Native	5	0.9	2	0.3	7	0.9	8	1.2	1	0.1	7	0.8
Other	6	1.1	2	0.3	15	2.0	13	1.9	16	2.3	18	2.2
Pacific Islander	7	1.3	7	1.0	12	1.6	9	1.3	1	0.1	7	0.8
White non-Hispanic	292	52.1	359	53.1	418	54.4	333	49.0	316	46.1	411	49.3
Unknown	17	3.0	18	2.7	30	3.9	53	7.8	71	10.3	60	7.2
Total	560	100.0	676	100.0	769	100.0	679	100.0	686	100.0	834	100.0

					Er	rollment	by Gend	ler				
Gender	Fall	2001	Fall 2002		Fall 2003		Fall 2004		Fall 2005		Fall 2006	
	N	%	N	%	N	%	N	%	N	%	N	%
Male	163	29.1	203	30.0	244	31.7	208	30.6	228	33.2	249	29.9
Female	394	70.4	473	70.0	525	68.3	469	69.1	444	64.7	573	68.7
Not Reported	3	0.5	0	0.0	0	0.0	2	0.3	14	2.0	12	1.4
Total	560	100.0	676	100.0	769	100.0	679	100.0	686	100.0	834	100.0

	Fall 2001 Fall 2002			2002	Fall 2003 Fall 2004			2004	04 Fall 2005			Fall 2006	
Age	N	%	N	%	N	%	N	%	N	%	N	%	
Less than 20	4	0.7	7	1.0	4	0.5	8	1.2	8	1.2	9	1.1	
20 - 24	111	19.8	164		164		113		138		175	21.0	
25 - 29	140	25.0	159	23.5	175	22.8	147	21.6	140	20.4	200	24.0	
30 - 49	289	51.6	325	48.1	373	48.5	337	49.6	344	50.1	398	47.7	
50+	16	2.9	21	3.1	53	6.9	74	10.9	56	8.2	52	6.2	
Total	560	100.0	676	100.0	769	100.0	679	100.0	686	100.0	834	100.0	

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	Success and Retention by Gender Fall 2001												
	Suc	cess	No Success		Withdrawal		Retention		Total				
Gender	N	%	N	%	N	%	N	%	N	%			
Vlale	102	84.3%	4	3.3%	15	12.4%	106	87.6%	121	100.0%			
Female	203	94.0%	2	0.9%	11	5.1%	205	94.9%	216	100.0%			
Not Reported	3	100.0%	0	0.0%	0	0.0%	3	100.0%	3	100.0%			
Total	308	90.6%	6	1.8%	26	7.6%	314	92.4%	340	100.0%			

	Success and Retention by Gender Fall 2002													
Ī	Succ	cess	No Su	ccess	Withdrawal		Retention		Total					
Gender	N	%	N	%	N	%	N	%	N	%				
Male	135	95.1%	0	0.0%	7	4.9%	135	95.1%	142	100.0%				
Female	250	94.7%	4	1.5%	10	3.8%	254	96.2%	264	100.0%				
Not Reported	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	100.0%				
Total	385	94.8%	4	1.0%	17	4.2%	389	95.8%	406	100.0%				

	Success and Retention by Gender Fall 2003												
l I	Success		No Success		Withdrawal		Retention		Total				
Gender	N	%	N	%	N	%	N	%	N	%			
Male	148	92.8%	2	2.5%	23	4.7%	150	86.7%	173	100.0%			
Female	266	92.9%	9	2.1%	13	5.0%	275	95.5%	288	100.0%			
Not Reported	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	100.0%			
Total	414	92.8%	11	2.3%	36	4.9%	425	92.2%	461	100.0%			

	Success and Retention by Gender Fall 2004												
	Suc	cess	No Success		Withd	Withdrawal		ntion	Total				
Gender	N	%	N	%	N	%	N	%	N	%			
Male	137	91.90%	5	3.40%	7	4.70%	142	95.3%	149	100.0%			
Female	242	94.90%	1	0.40%	12	4.70%	243	95.3%	255	100.0%			
Not Reported	0	0.00%	0	0.00%	0	0.00%	0	0.0%	0	100.0%			
Total	379	93.80%	6	1.50%	19	4.70%	385	95.3%	404	100.0%			

	Success and Retention by Gender Fall 2005												
	Success		No Success		Withd	Withdrawal		ntion	Total				
Gender	N	%	N	%	N	%	N	%	N	%			
Male	151	96.20%	6	3.80%	0	0	157	100.0%	157	100.0%			
Female	204	91.10%	6	2.70%	14	6.30%	210	93.8%	224	100.0%			
Not Reported	9	100.00%	0	0	0	0	9	0.0%	9	100.0%			
Total	364	151 11	12	3.10%	14	3.60%	376	96.4%	390	100.0%			

	Success and Retention by Gender Fall 2006												
	Suc	cess	No Success		Witho	Withdrawal		ntion	Total				
Gender	N	%	N	%	N	%	N	%	N	%			
Male	151	87.8%	11	6.4%	10	5.8%	162	94.2%	172	100.0%			
Female	296	89.7%	18	5.5%	16	4.8%	314	95.2%	330	100.0%			
Not Reported	8	80.0%	2	20.0%	0	0.0%	10	0.0%	10	100.0%			
Total	455	88.9%	31	6.1%	26	5.1%	486	94.9%	512	100.0%			

			Si	uccess and	l Retentior	by Ethnic	ity Fall 200)1	
	Success		No Su	ccess	Withdrawal		Retention		To
Ethnicity	N	%	N	%	N	%	N	%	N
Asian	32	100.0%	0	0.0%	0	0.0%	32	100.0%	32
Black non-Hispanic	25	78.1%	3	9.4%	4	12.5%	28	87.5%	32
Filipino	26	86.7%	0	0.0%	4	13.3%	26	86.7%	30
Hispanic	35	83.3%	2	4.8%	5	11.9%	37	88.1%	42
American Indian/Alaskan Native	3	60.0%	0	0.0%	2	40.0%	3	60.0%	5
Other	3	100.0%	0	0.0%	0	0.0%	3	100.0%	3
Pacific Islander	4	100.0%	0	0.0%	0	0.0%	4	100.0%	4
White non-Hispanic	166	93.3%	1	0.6%	11	6.2%	167	93.8%	178
Unknown	14	100.0%	0	0.0%	0	0.0%	14	100.0%	14
Total	308	90.6%	6	1.8%	26	7.6%	314	92.4%	340

	Success and Retention by Ethnicity Fall 2002										
	Success		No St	No Success		Withdrawal		Retention			
Ethnicity	N	%	N	%	N	%	N	%	N		
Asian	44	100.0%	0	0.0%	0	0.0%	44	100.0%	44		
Black non-Hispanic	34	91.9%	2	5.4%	1	2.7%	36	97.3%	37		
Filipino	18	78.3%	0	0.0%	5	21.7%	18	78.3%	23		
Hispanic	64	97.0%	1	1.5%	1	1.5%	65	98.5%	66		
American Indian/Alaskan Native	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0		
Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0		
Pacific Islander	4	100.0%	0	0.0%	0	0.0%	4	100.0%	4		
White non-Hispanic	211	95.5%	0	0.0%	10	4.5%	211	95.5%	221		
Unknown	10	90.9%	1	9.1%	0	0.0%	11	100.0%	11		
Total	385	94.8%	4	1.0%	17	4.2%	389	95.8%	406		

	Success and Retention by Ethnicity Fall 2003											
	Success		No Su	No Success		irawal	Retention		То			
Ethnicity	N	%	N	%	N	%	N	%	N			
Asian	38	92.7%	2	4.9%	1	2.4%	40	97.6%	41			
Black non-Hispanic	37	90.2%	2	4.9%	2	4.9%	39	95.1%	41			
Filipino	22	78.6%	0	0.0%	6	21.4%	22	78.6%	28			
Hispanic	40	88.9%	1	2.2%	4	8.9%	41	91.1%	45			
American Indian/Alaskan Native	4	100.0%	0	0.0%	0	0.0%	4	0.0%	4			
Other	5	62.5%	3	37.5%	0	0.0%	8	0.0%	8			
Pacific Islander	8	100.0%	0	0.0%	0	0.0%	8	100.0%	8			
White non-Hispanic	242	91.0%	1	0.4%	23	8.6%	243	91.4%	266			
Unknown	18	90.0%	2	10.0%	0	0.0%	20	100.0%	20			
Total	414	89.8%	11	2.4%	36	7.8%	425	92.2%	461			

	Success and Retention by Ethnicity Fall 2004										
	Suc	cess	No Su	ccess	Withd	Irawal	Rete	ntion	To		
Ethnicity	N	N % N % N % N % N									

Total	379	93.8%	6	1.5%	19	4.7%	385	95.3%	404
Unknown	36	100.0%	0	0.0%	0	0.0%	36	9.4%	36
White non-Hispanic	190	90.9%	2	1.0%	17	8.1%	192	49.9%	209
Pacific Islander	7	100.0%	0	0.0%	0	0.0%	7	1.8%	7
Other	7	100.0%	0	0.0%	0	0.0%	7	1.8%	7
American Indian/Alaskan Native	3	100.0%	0	0.0%	0	0.0%	3	0.8%	3
Hispanic	44	95.7%	1	2.2%	1	2.2%	45	11.7%	46
Filipino	20	95.2%	0	0.0%	1	4.8%	20	5.2%	21
Black non-Hispanic	42	93.3%	3	6.7%	0	0.0%	45	11.7%	45
Asian	30	100.0%	0	0.0%	0	0.0%	30	7.8%	30

	Success and Retention by Ethnicity Fall 2005										
	Success		No Su	No Success		Withdrawal		ntion	То		
Ethnicity	N	%	N	%	N	%	N	%	N		
Asian	36	100.0%	0	0.0%	0	0.0%	36	100.0%	36		
Black non-Hispanic	24	80.0%	6	20.0%	0	0.0%	30	100.0%	30		
Filipino	25	89.3%	2	7.1%	1	3.6%	27	96.4%	28		
Hispanic	51	87.9%	3	5.2%	4	6.9%	54	93.1%	58		
American Indian/Alaskan Native	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0		
Other	7	100.0%	0	0.0%	0	0.0%	7	100.0%	7		
Pacific Islander	0	0.0%	0	0.0%	1	100.0%	0	0.0%	1		
White non-Hispanic	171	95.0%	1	0.6%	8	4.4%	172	95.6%	180		
Unknown	50	100.0%	0	0.0%	0	0.0%	50	100.0%	50		
Total	364	93.3%	12	3.1%	14	3.6%	376	96.4%	390		

			s	uccess an	d Retention	by Ethnic	ity Fall 200)6	
	Suc	cess	No Su	ccess	Withd	Withdrawal		ntion	To
Ethnicity	N	%	N	%	N	%	N	%	N
Asian	49	86.0%	7	12.3%	1	1.8%	56	98.2%	57
Black non-Hispanic	28	82.4%	4	11.8%	2	5.9%	32	94.1%	34
Filipino	28	93.3%	0	0.0%	2	6.7%	28	93.3%	30
Hispanic	69	92.0%	5	6.7%	1	1.3%	74	98.7%	75
American Indian/Alaskan Native	3	75.0%	0	0.0%	1	25.0%	3	75.0%	4
Other	11	84.6%	0	0.0%	2	15.4%	11	84.6%	13
Pacific Islander	4	100.0%	0	0.0%	0	0.0%	4	100.0%	4
White non-Hispanic	232	93.2%	12	4.8%	5	2.0%	244	98.0%	249
Unknown	31	67.4%	3	6.5%	12	26.1%	34	73.9%	46
Total	455	88.9%	31	6.1%	26	5.1%	486	94.9%	512

				Success a	nd Retenti	on by Age	Fall 2001			
	Suc	cess	No Suc	cess	Withd	rawal	Rete	ntion	Total	
Age	N	%	N	%	N	%	N	%	N	%
Less than 20	4	100.0%	0	0.0%	0	0.0%	4	100.0%	4	100.0%
20 - 24	72	96.0%	2	2.7%	1	1.3%	74	98.7%	75	100.0%
25 - 29	77	98.7%	1	1.3%	0	0.0%	78	100.0%	78	100.0%
30 - 49	151	88.8%	3	1.8%	16	9.4%	154	90.6%	170	100.0%
50+	4	30.8%	0	0.0%	9	69.2%	4	30.8%	13	100.0%
Total	308	90.6%	6	1.8%	26	7.6%	314	92.4%	340	100.0%

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	Success and Retention by Age Fall 2002														
	Suc	cess	No Suc	cess	Withd	rawal	Rete	ntion	Total						
Age	N	%	N	%	N	%	N	%	N	%					
Less than 20	5	100.0%	0	0.0%	0	0.0%	5	100.0%	5	100.0%					
20 - 24	83	92.2%	0	0.0%	7	7.8%	83	92.2%	90	100.0%					
25 - 29	96	100.0%	0	0.0%	0	0.0%	96	100.0%	96	100.0%					
30 - 49	187	93.5%	3	1.5%	10	5.0%	190	95.0%	200	100.0%					
50+	14	93.3%	1	6.7%	0	0.0%	15	100.0%	15	100.0%					
Total	385	94.8%	4	1.0%	17	4.2%	389	95.8%	406	100.0%					

				Success	and Retent	ion by Age	Fall 2003			
	Succ	ntion	n Total							
Age	N	%	N	%	N	%	N	%	N	%
Less than 20	2	100.0%	0	0.0%	0	0.0%	2	100.0%	2	100.0%
20 - 24	94	94.0%	1	1.0%	5	5.0%	95	95.0%	100	100.0%
25 - 29	97	95.1%	3	2.9%	2	2.0%	100	98.0%	102	100.0%
30 - 49	189	86.7%	7	3.2%	22	10.1%	196	89.9%	218	100.0%
50+	32	82.1%	0	0.0%	7	17.9%	32	82.1%	39	100.0%
Total	414	89.8%	11	2.4%	36	7.8%	425	92.2%	461	100.0%

				Success a	and Retent	ion by Age	Fall 2004			
	Suc	cess	No Su	ccess	Irawal	Rete	ntion	Total		
Age	N	%	N	%	N	%	N	%	N	%
Less than 20	5	83.3%	1	16.7%	0	0.0%	6	100.0%	6	100.0%
20 - 24	60	100.0%	0	0.0%	0	0.0%	60	100.0%	60	100.0%
25 - 29	76	97.4%	0	0.0%	2	2.6%	76	97.4%	78	100.0%
30 - 49	192	91.9%	1	0.5%	16	7.7%	193	92.3%	209	100.0%
50+	46	90.2%	4	7.8%	1	2.0%	50	98.0%	51	100.0%
Total	379	93.8%	6	1.5%	19	4.7%	385	95.3%	404	100.0%

				Success a	nd Retent	ion by Age	Fall 2005					
	Suc	Success No Success Withdrawal Retention Total										
Age	N	%	N	%	N	%	N	%	N	%		
Less than 20	4	100.0%	0	0.0%	0	0.0%	4	100.0%	4	100.0%		
20 - 24	83	98.8%	1	1.2%	0	0.0%	84	100.0%	84	100.0%		
25 - 29	62	91.2%	1	1.5%	5	7.4%	63	92.6%	68	100.0%		

30 - 49	185	94.9%	5	2.6%	5	2.6%	190	97.4%	195	100.0%
50+	30	76.9%	5	12.8%	4	10.3%	35	89.7%	39	100.0%
Total	364	93.3%	12	3.1%	14	3.6%	376	96.4%	390	100.0%

				Success a	nd Retenti	ion by Age	Fall 2006			
	Suc	cess	No Suc	ccess	Withd	rawal	Rete	ntion	Total	
Age	N	%	N	%	N	%	N	%	N	%
Less than 20	6	100.0%	0	0.0%	0	0.0%	. 6	100.0%	6	100.0%
20 - 24	99	86.8%	10	8.8%	5	4.4%	109	95.6%	114	100.0%
25 - 29	99	83.9%	11	9.3%	8	6.8%	110	93.2%	118	100.0%
30 - 49	224	93.3%	9	3.8%	7	2.9%	233	97.1%	240	100.0%
50+	27	79.4%	1	2.9%	6	17.6%	28	82.4%	34	100.0%
Total	455	88.9%	31	6.1%	26	5.1%	486	94.9%	512	100.0%

Efficiency Report

Grossmont College Efficiency (Earned WSCH/FTEF)

	2001 - Fall	2002 - Spring	2002 - Fall	2003 - Spring	2003 - Fall	2004 - Spring	2004 - Fall	2005 - Spring	2005 - Fall	2006 - Spring	2006 - Fall	2007 - Spring
ANTH	555	719	668	700	685	706	698	601	647	581	590	618
AOJ	487	487	540	538	570	569	560	524	483	478	492	442
ARBC	383	325	345	295	351	410	350	298	365	331	366	372
ART	514	491	506	516	505	500	485	459	447	430	437	384
ASL	430	473	417	449	466	433	363	363	354	386	368	380
ASTR	631	612	592	565	547	565	545	504	514	451	520	495
BIO	673	696	763	720	760	758	729	765	723	692	679	661
BOT	462	446	491	500	552	386	364	341	350	257	285	275
BUS	453	512	543	555	573	530	505	468	469	472	473	470
CA	433	426	296	377	350	399	401	387	362	371	375	348
ccs	491	483	488	476	539	483	425	415	482	473	505	395
CD	500	509	547	522	511	523	530	502	525	430	502	461
CHEM	454	489	530	533	559	562	518	530	556	526	580	509
CHIN	N/A	N/A	450	435	255	435	465	360	405	450	315	338
COMM	445	446	460	431	464	437	435	425	417	386	405	389
CSIS	428	410	392	381	419	392	414	384	377	395	360	379
CVTE	285	265	360	329	366	339	385	357	357	346	426	340
DANC	423	454	411	480	395	444	443	419	429	376	405	401
	747	745	736	736	778	747	649	639	614	765	737	756
ECON												
ED	150	269	379	161	210	210	195	270	203	268	330	300
ENGL	361	344	381	369	366	354	354	335	345	311	346	307
ES	564	509	573	484	535	495	536	460	481	435	485	452
ESL	378	381	401	375	375	351	350	331	326	322	313	317
FACS	N/A	N/A										
FREN	367	370	347	367	380	384	347	337	318	305	347	340
FS	581	457	623	534	608	656	540	566	477	471	420	459
GEOG	567	568	585	543	583	532	530	498	482	447	445	471
GEOL	456	495	480	485	490	422	376	371	411	343	399	361
GERM	315	345	379	424	456	392	367	377	315	359	353	376
HED	737	725	871	776	848	799	819	734	694	765	710	639
HESC	294	327	381	516	510	254	473	159	609	256	416	165
HIST	552	591	570	618	614	601	605	561	545	499	545	534
HUM	535	610	576	534	526	515	466	448	392	371	363	410
ITAL	435	350	300	465	503	458	465	420	420	285	413	330
JAPN	408	353	437	341	433	468	471	444	473	443	414	359
LIR	N/A	N/A	N/A	N/A	373	N/A	164	373	239	294	313	373
MATH	592	572	629	584	613	565	593	499	545	462	533	469
MCOM	386	396	402	421	391	405	395	399	363	375	348	414
MM	255	270	N/A	291	N/A	206	N/A	137	N/A	N/A	N/A	326
MUS	473	464	462	491	465	499	472	487	430	414	403	414
NURS	271	248	247	228	253	235	250	254	207	241	245	230
OCEA	528	424	495	453	509	547	473	518	518	536	473	448
OTA	220	122	187	212	245	238	241	218	303	390	319	269
PDC	470	470	452	386	416	391	438	342	431	331	378	337
PDSS	739	640	1739	849	842	1631	802	1577	1730	1486	1622	1378
PHIL	541	594	560	588	595	594	539	490	468	422	457	427
PHYC	405	378	482	444	444	402	452	387	403	371	403	429
POSC	596	627	665	622	641	638	637	602	526	508	528	530
PSC	572	486	609	492	572	648	600	568	512	414	467	420
PSY	651	673	704	709	684	638	627	622	579	545	575	529

Grossmont College Efficiency (Earned WSCH/FTEF)

	2001 - Fall	2002 - Spring	2002 - Fall	2003 - Spring	2003 - Fall	2004 - Spring	2004 - Fall	2005 - Spring	2005 - Fall	2006 - Spring	2006 - Fall	2007 - Spring
RELG	564	675	520	621	483	576	515	591	413	413	511	453
RESP	173	158	166	150	182	144	209	184	230	188	231	190
RUSS	234	271	349	344	335	330	335	297	271	230	207	236
SCI	422	499	508	579	598	489	505	394	515	384	474	446
SLPA	225	255	262	195	220	195	268	215	208	184	343	279
SOC	673	630	716	668	680	681	662	568	603	487	535	519
SPAN	384	401	402	384	397	388	362	352	333	330	340	329
SPDV	109	100	103	112	83	108	68	88	58	92	48	56
THTR	324	338	308	312	309	303	313	295	299	287	270	261

Total	470	468	493	478	492	472	474	442	440	411	436	409

Degrees & Certificates Awarded

CARDIOVASCULAR TECHNOLOGY DEGREES & CERTIFICATES

Award: Cardiovascular Technology (52053)

			ΝФ	
		Тур	e of Award :	ಘ
	Year/Semester 🕏	Degree	Certificate	Total
Students 🕏	2000 - Fall		1	1
	2001 - Spring	27	41	68
	2001 - Summer	1	2	3
	2001 - Fall	1		1
	2002 - Spring	21	21	42
	2002 - Summer		1	1
	2003 - Spring	17	26	43
	2003 - Summer		1	1
	2003 - Fall	4		4
	2004 - Spring	26	33	59
	2004 - Fall	2		2
	2005 - Spring	24	26	50
	2005 - Summer	2	1	3
	2005 - Fall	1		1
	2006 - Spring	26	32	58
	2006 - Summer	1	2	3
	2006 - Fall	3	2	5
[2007 - Spring	35	40	75
	Total	191	229	420



Sabbaticals, Conference, Workshop and Staff Development Activities

10. Sabbaticals, Conference, Workshop and Staff Development Activities

Name	Activity	Relevance
Don Ridgway	St. John Vascular Symposium St. Louis, MO March 2007	National seminar on Vascular Diagnostics and treatment methodologies for vascular disease.
Don Ridgway	St. John Vascular Symposium St. Louis, MO March 2005	National seminar on Vascular Diagnostics and treatment methodologies for vascular disease.
Helen Potter	Excellence in the Practice of Cardiovascular Ultrasound Palm Springs, CA October 2007	A four day conference featuring eminent speakers and authors, presentation of scientific data and clinical case reviews.
Helen Potter	Echocardiographic Evaluation of Congenital Heart Disease San Diego, CA October 2007	A two day conference on the use of ultrasound to evaluate congenital heart disease in adults and children.
Helen Potter	The Clinical Impact of Echocardiography and Contrast Enhancement in Left Ventricular Assessment San Diego, CA	A seminar to explore new modalities and methods of assessment of the left ventricule.

Helen Potter	Tissue Doppler, LV Strain and Strain Rate Imaging. San Diego, CA June 2005	New modalities in the assessment of ventricular function indices.
Stanley Keys	Scripps Clinic 18 th Annual Coronary Interventions Conference La Jolla, CA October 2007	A 3-day national conference on coronary intervention techniques featuring scientific data presentation, case reports and analysis and live broadcasts of angioplasty and stent placement.
Stanley Keys	Boston Scientific Arrhythmia & Heart Failure Symposium for Allied Health Professionals Boston, MA March 2007	A 2-day review of diagnostic and treatment methodologies for cardiac arrhythmia and heart failure.
Andy Biondo	Scripps Clinic 18 th Annual Coronary Interventions Conference La Jolla, CA October 2007	A 3-day national conference on coronary intervention techniques featuring scientific data presentation, case reports and analysis and live broadcasts of angioplasty and stent placement.
Andy Biondo	University of Pennsylvania Scholastic Professional Development Pennsylvania, PA Online CME's - Accumulated 38 hours in Vascular Diagnostics	Continuing education in Vascular Diagnostic methods.

Dan Sullivan	Scripps Clinic 19th Annual Coronary Interventions Conference	Continuing education in interventional cardiology.
	La Jolla, CA	
	October 2008	

Department Equivalencies

CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE

MINIMUM QUALIFICATIONS & EQUIVALENCIES FOR CVT FACULTY

I. MINIMUM QUALIFICATIONS FOR FULL TIME AND ADJUNCT FACULTY

A. Education/Experience

1. Minimum of a Bachelor's Degree and two years full-time experience in teaching or clinical practice of Cardiovascular Technology.

OR

Associate Degree and six years full-time experience in teaching 'slinical practice of Cardiovascular Technology.

OR

A current California Community College Credential that permits full-time service as an instructor in Cardiovascular Technology.

B. Certification/Registry

 Registered Cardiovascular Technologist as demonstrated by successful completion of a professional registry examination conducted by Cardiovascular Credentialing International (CCI), or the National Society of Cardiopulmonary Technologists (NSCPT), or the American Registry of Diagnostic Medical Sonographers (ARDMS).

OR

Candidate must be registry-eligible and agree to obtain registry status within one year of the effective date of employment.

II. EQUIVALENCY TO MINIMUM QUALIFICATIONS

A. EXPERIENCE/EDUCATION

- 1. A minimum of 8 years full-time experience in the clinical practice of Cardiovascular Technology and verified minimum of 10 hours of continuing education per year the two years most recent to employment.
- 2. A minimum of two of the eight years required must be documented as experience in teaching courses directly related to the field of Cardiovascular Technology. Examples include but are not limited to medical continuing education courses, Advanced Cardiac Life Support certification, basic or advanced courses in electrocardiography, cardiac catheterization techniques, echocardiography, or vascular duplex imaging techniques.

OR

Twelve semester units of course work in the techniques of teaching.

B. CERTIFICATION/REGISTRY

 Registered Cardiovascular Technologist as demonstrated by successful completion of a professional registry examination conducted by Cardiovascular Credentialing International (CCI), or the National Society of Cardiopulmonary Technologists (NSCPT), or the American Registry of Diagnostic Medical Sonographers (ARDMS).

OR

Candidate must be registry-eligible and agree to obtain registry status within one year of the effective date of employment.

III. COURSE SPECIFIC EQUIVALENCIES

A. COURSES LIMITED TO:

CVTE 205 – Clinical Practicum II CVTE 215 – Clinical Practicum III

B. EDUCATION/EXPERIENCE

 Graduate of an educational program in Cardiovascular Technology which has been approved by the Committee on Allied Health Education & Accreditation (CAHEA) or the National Society of Cardiopulmonary Technologists (NSCPT) and two years of full-time experience in teaching or clinical practice of Cardiovascular Technology.

OR

Four years of full-time experience in teaching or clinical practice of Cardiovascular Technology and verified minimum of 10 hours of continuing education per year for the two year most recent to employment.

C. Certification/Registry

 Registered Cardiovascular Technologist as demonstrated by successful completion of a professional registry examination conducted by Cardiovascular Credentialing International (CCI), or the National Society of Cardiopulmonary Technologists (NSCPT), or the American Registry of Diagnostic Medical Sonographers (ARDMS).

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Candidate must be registry-eligible and agree to obtain registry status within one year of the effective date of employment.

Subject WSCH Analysis Report SUBJECT WSCH

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DIVISION	BUSINESS	AND PROFESSION	NAL STUDIES		*** CENSUS	CLASSES ***	
Ę	TOP	LAL	MAX WSCH	MAX WSCH/FTEF	EARNED WSCH	EARNED wSCH/FTEF	% OF MAX
SIS296 SIS297 SIS299 **** CS	0000	350 600 619	144.00 144.00 216.00 8776.00	411.42 411.42 360.00 528.07	126.00 96.00 183.00 7195.50	360.00 274.28 305.00 432.96	87.50 66.66 84.72 81.99
CVTE107 CVTE110 CVTE111 CVTE112 CVTE210 CVTE211 CVTE212		1	125. 125. 240. 240. 3240. 320. 120. 120. 120. 120. 120. 120. 120.	342.13 9023.13 9082.23 9082.13 9082	15.00 30.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	223.88 586.46 584.26 294.26 301.74 2557.86 137.14 171.14	00000000000000000000000000000000000000
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FS 110 FS 115 FS 120 ***** FS	130400 130400 130400 130400	.200 .200 .400 .267	120.00 120.00 270.00 155.00 665.00	600.00 600.00 675.00 580.52 3.52	111.00 102.00 213.00 62.00	555.00 510.00 532.50 457.35	92.50 785.00 740.00 73.38
HESC110 HESC150 HESC205 HESC206 ****** HE	219900 219900 219900 219900 35C		120.00 120.00 80.00 120.00 440.00	600.00 601.50 600.27	120.00 75.00 30.00 45.00 270.00	600.00 375.00 225.56 225.00 368.34	100.00 62.50 37.50 61.36
MM 299 *******	006690	.200	60.00	300.00	54.00 54.00	270.00	90.06
NURS118 NURS120 NURS131 NURS155B	120300 120300 120300 120300	. 133 . 978 . 099 . 225	270.00 270.00 270.00 6.00	202			5800.00 1000.00 1000.00 1000.00
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OTA 100 OTA 120 OTA 130 OTA 140 ****** OT	121800 121800 121800 121800	.133 .133 .283 .899	70.00 70.00 210.00 175.00 525.00	526.31 526.31 600.00 618.37 583.98	32.00 12.00 36.00 30.00 110.00	240.60 90.22 102.85 122.35	45.71 17.14 17.14 20.95
RESP116 RESP118	121000	.200	108.00 135.00	540.00 317.64	45.00 105.00	225.00 247.05	41.66

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*** DAILY CENSUS CLASSES *** DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

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SUBJECT	TOP	TOTAL FTEF	MAX WSCH	MAX WSCH/FTEF	EARNED WSCH	E F	OF .
(S) ****	IS.	15.855	8276.00	521.98	6398.50	403.56	77.31
CVTE100 CVTE101 CVTE102 CVTE200 CVTE201 CVTE201 CVTE202 CVTE205 CVTE205 CVTE205	121300 121300 121300 121300 121300 121300 121300		120.00 240.00 4480.00 240.00 150.00 102.00 750.00 2367.00	9902 8998 4644 4645 3346 3308 531 531 531 531 531 531 531 531 531 531	110.00 220.00 440.00 216.00 160.00 60.00 555.00 1977.00	823.06 823.06 425.99 274.17 171.42 163.93 00	911.66 911.66 106.00 106.00 88.88 83.23 83.52 83.53
FS 110 FS 115 FS 120 ***** FS	130400 130400 130400	 2000 4000 0000	150.00 120.00 285.00 555.00	750.00 600.00 712.50 693.75	135.00 117.00 246.00 498.00	675.00 585.00 615.00 622.50	90.00 97.50 86.31 89.72
HESC110 HESC150 HESC199 ****** HES	219900 219900 219900 SC	.500	24 90.00 399.00	800.00 450.00 9.00 678.00	150.00 93.00 252.00	500.00 465.00 9.00 504.00	62.50 103.33 100.00 74.33
	1120300 1220300 12203300 12203300	8	292.50 449.50 292.50 292.50 292.50 157.50	171.41 1300.00 556.17 291.24 1300.00 700.00	1080.00 297.00 45.00 360.00 148.50 2007.00	210.97 1320.097 505.61 249.63 660.00 340.00	123.07 101.53 90.90 85.71 50.76 48.57
		2082513 2082513	140.00 210.00 210.00 96.00 120.00 660.00	526 6455.31 6005.00 432.00 424.03 358.20 518.20	2 22 75 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	436.09 222.85 90.09 74.62	337.18 377.8 200.114 300.833 6.083
RESP105 RESP108 RESP114 RESP115 RESP208 RESP222 ***** RESP	121000 121000 121000 121000 121000 SP	. 267 . 800 . 133 . 267 . 425 3.992	140.00 270.00 70.00 120.00 112.50 315.00	524.34 337.50 526.31 449.43 264.70 150.00	92.00 234.00 54.00 56.00 105.00 147.00	344.56 292.50 406.01 209.73 247.05 70.05	65.71 86.64 77.14 46.66 93.33 46.66
SLPA100 SLPA200	122000	.267	120.00 180.00	449.43 674.15	80.00	299.62 224.71	66.66 33.33

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	% OF MAX	000000	80.00 62.50 65.00 740.00	100.00 62.00 69.47 72.65	70.83	87.50 21.25 37.81	31.42 37.14 37.14 36.38	648 648 666 666 666 666 666 666 666 666	42.85 34.28 34.28 37.14
CLASSES ***	EARNED WSCH/FTEF	7.749 666.99 7.009 7.009 7.009	2747.28 171.42 2222.85 163.93 326.75	750.00 465.00 495.00 534.00	291.42 291.42	634.05 340.00 464.66	165.41 195.48 222.85 229.68 212.45	360.00 209.73 209.73 393.33 149.75	224.71 179.77 179.77 194.75
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SUBJECT	TOP	TOTAL FTEF	MAX WSCH	MAX WSCH/FTEF	EARNED WSCH	WSCH/FTEF	% OF MAX
AOJ 100 AOJ 101 AOJ 104 AOJ 110 AOJ 1199	210500 210500 210500 210500 210500	29080	116.44 37.03 718.88 150.00 1.50 60.00	559.80 446.14 743.64 750.00 1.50 600.00	116.44 31.11 175.73 84.00 39.00	559.80 374.81 181.78 420.00 390.00	100.00 84.01 24.01 100.00 65.00
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BUS 086 BUS 120 BUS 121 BUS 252 BUS 256 BUS 257 ***** BU	051400 050200 050200 050900 050990 050990	. 5336 . 267 . 100 . 100 1 . 403	22.50 200.00 72.00 68.75 599.25	41.97 749.06 720.06 720.00 516.91 360.00	79.50 168.00 168.00 51.00 37.13 26.25 545.88	148.32 629.21 510.00 279.17 89.50	353.33 92.00 84.00 70.83 72.91
CA 163 CA 166 ****** CA	130630	.067	35.00 35.00 70.00	522.38 522.38 522.38	26.00 25.00 51.00	388.05 373.13 380.59	74.28 71.42 72.85
CD 125 CD 128 CD 138 CD 299 ***** CD	130510 130510 130510 130510		330.00 135.00 189.00 744.00	825.00 675.00 945.00 671.64 796.57	204.00 132.00 157.50 68.00 561.50	510.00 660.00 787.50 507.46 601.17	61.81 97.77 83.33 75.55
CSIS105 CSIS142 CSIS144 CSIS144 CSIS172 CSIS172 CSIS173 CSIS173	00000000000000000000000000000000000000		128.00 104.00 48.00 48.00 100.00	320.80 390.97 360.90 360.90 751.87	1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8822224822 8822224822 88222822 98222 9822 9	
\$\sigma \text{SIS18} \text{\$\sigma \text{SIS28} \$\sigma \text{\$\sigma \text{\$\s\	07030 07030 07030 07030 1S	0024W6 2004W	48.00	180.45	0000mm	000000	000000
CVTE225	121300	.150	75.00	200.00	, 00.99	440.00	88.00

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COLLEGE LYSIS TERM CLASSES GROSSMOR SUBJECT WSCH A. ONLY *** ALL SHORT COLLEGE -I 1: \ 14-2004 14:11:59 1: \cdot I4-11:59 SKDS7I-SUN ON: SEPORT

5.00 44.4 7.00 7.00 .93 W000014 $\omega_{N}\omega_{\infty}\omega_{\infty}\omega_{N}$ OF 26.6 വയന 805/80 782555 HMMMWMMH 00 960 Naga タらて $\sigma\sigma\omega\omega\sigma\sigma\sigma$ **044444**4 919111 EARNED WSCH/FTEF * . 14 . 00 . 74 2000 000 200 200 .3000... 00080800 00088000 73 60 235.6 205.6 1140.0 293.3 CLASSES 750 000 04000@@ROU0 7200 0.00004 0.00004 0.00004 0.00004 0.00004 0.00004 209 500 20m 7559 410m MMOHHHO manna--CENSUS WSCH 0000 000 000000 0000000 000 00 1066. 2122. 21224. 1086. 1088. 7202. 2027. 2026. 132 48 683 8247 8642 EARNED 415 $\omega \Omega \omega \omega \omega 4$ 4804517 **6158688** 90 44 40 80 10 10 10 10 10 10 4604611 80489ML **LH24** MAX WSCH/FTEF 411.42 360.00 530.66 9002 8998.87 4664.87 8061.89 801.89 801.89 801.89 801.89 801.99 801.99 801.99 000 239.60 556.17 303.22 300.00 700.00 2000 34 W0W410W 524 644 643 643 643 61 81 81 81 5524 5224 5226 1346 150 600 675 615 626 വവവ N_D 444 **MSCH** STUDIES 120.00 240.00 480.00 240.00 108.00 102.00 75.00 810.00 49.50 480.00 292.50 157.50 90.00 70.00 140.00 210.00 96.00 120.00 24.00 000 0000 00 140.0 270.0 70.0 120.0 315.0 144 72 858 140 60 MAX 250 20 10 10 10 2011 PROFESSIONAL FTEF 133 217 325 222 283 267 272 267 800 133 267 650 100 350 200 923 2000 8000 000 200 200 400 000 67 27 TOTAL 2 9 0 AND BUSINESS 070300 070300 1S 0400 0400 0400 1111800 8000 18000 10000 10000 10000 10000 9900 2000 TOP **222222222**22222 mmm221 22222 222222 22222 20 AHHHAA HHHHM NURS120 NURS201 NURS203 NURS255A NURS265A NURS265A NURS265A CSI CYT OTA HE [1] Ĺ α CSIS296 CSIS299 CVTE100 CVTE101 CVTE103 CVTE200 CVTE201 CVTE203 CVTE203 CVTE203 CVTE208 HESC110 HESC150 SLPA100 SLPA115 10 32000 320000 320000 SUBJECT DIVISION 017A 017A 017A 017A *** აიაა* *

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SKUS/1-1 RUN ON: 21-2004 11:11:02 REPORT LULUDES: GROSSMONT COLLEGE ONLY *** ALL SHORL LERM CLASSES ***

•		% OF MAX	90.06	1143 3155.00 883.33 7444.40 600.000 1000.000 128.13 91.111 128.88 999	$\begin{array}{c} \text{RV} & \text{RV} &$	116.00 78.33 78.33
	CLASSES ***	EARNED wSCH/FTEF	370.78	46414464446444464444444444444444444444	### ### ### ### ### ### ### ### ### ##	432.83 706.76 704.11
EUE S CLASSES ***	*** CENSUS	EARNED WSCH	00.66	443.00 13.74.00 13.00 13.00 10.00		29.00 94.00 188.00
WSCH LYSI SHOR, LERM		MAX WSCH/FTEF	411.98	444477646464646464646464646464646464646	77797877777777777777777777777777777777	373.13 902.25 898.87
SUBJECT WOONLY *** ALL	ONAL STUDIES	MAX WSCH	110.00	30 10 10 10 10 10 10 10 10 10 10 10 10 10	2424242 242424242 242424242 242424242	25.00 120.00 240.00
1:11:02 SSMONT COLLEGE	AND PROFESSION	TOTAL FTEF	.267			. 067 . 133 . 267
21-2004 13 LUDES: GROS	US	TOP		00000000000000000000000000000000000000	00000000000000000000000000000000000000	121300 121300 121300
SKUS / 1 - 1 RUN ON: REPORT INC.	IVI	SUBJECT	* * *	**************************************	**************************************	CVTE107 CVTE110 CVTE111

SKDS7I--RUN ON: V--21-2004 11:11:02 SUBJECT WSCH ANALYSIS REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***

DIVISION	BUSINESS	AND PROFESSION?	NAL STUDIES		*** CENSUS	CLASSES ***	
SUBJECT	TOP	TOTAL FTEF	MAX WSCH	MAX WSCH/FTEF	EARNED WSCH	EARNED wSCH/FTEF	% OF MAX
E211	2130 2130 2130 2130	00440 000401	00000	64.6 10.9 61.8 42.8	0.000	63.9 13.3 08.5	88604
	121300 121300 121300 121300		96.00 120.00 900.00 18.00	244.28 342.85 345.00 751.87	696.00 696.00 51.00 34.00	2011 1888 1888 2018 2018 2018 2018 2018	1006.25 1006.25 200.00 200.00
k *	130400 130400 130400	22.4.8	150.0 150.0 285.0 585.0	50.00 12.53 31.25	144.0 156.0 225.0 525.0	20.00 62.00 56.25	0000
NURS131 NURS155B ****** NUR	120300 120300 RS	.177	90.00 270.00 360.00	506.75 1200.00 894.18	88.50	498.31	98.33
120 130 140 0	121800 121800 121800 A	782 782 792	70.00 210.00 175.00 455.00	526.31 600.00 618.37 593.99	28.00 84.00 70.00 182.00	210.52 240.00 247.34 237.59	40.00 40.00 40.00 40.00
ESP11 ESP11 ESP12	2100 2100 2100 2100	.200 .650 1.800	0000	0000	4,440 07,00	90.00	4.64.0
**************************************	121000 121000 121000 121000 SP	2.267 .2000 .150	120.00 367.50 105.00 15.00 1564.50	449.43 175.00 525.00 291.50	80.00 210.00 54.00 771.50	299.62 100.00 270.00 143.74	66.65 51.14 64.51 49.31
J	122000 122000 PA	. 267 . 267 . 534	140.00 140.00 280.00	524.34 524.34 524.34	56.00 48.00 104.00	209.73 179.77 194.75	40.00 34.28 37.14
* * * * * * * * * * * * * * * * * * * *	BUSINESS A	AND PROFESSIONAL	STUDIES	* * * * * * * * * * * * * * * * * * * *			,

80.94

434.12

22862.50

536.30

28243.50

52.663

GROSSMO

2.15	* * *	% OF MAX	91.11 56.67 68.00 933.75 633.33	260.00 106.00 96.00 47.91 54.16 88.87	94.28 80.00 87.14	67.61 86.66 68.88 72.92	87.887 8887 8887 8887 8486 8486 8486 8486 8	104.00	50.00 48.00 9.00	79.99 60.00 36.10 93.43 90.00
	CENSUS CLASSES	EARNED wSCH/FTEF	541.11 404.57 405.00 510.00 523.95 449.10 405.40	194.61 794.00 719.10 345.00 359.77 195.00	492.53 417.91 455.22	532.50 585.00 462.68 541.22	345 3085 221085 2555 6615 6615 3005 3007 71 81	520.00	375.00 360.00 367.50	354.62 3184.62 194.02 213.03 198.89
JEGE S CLASSES ***	*** DAILY	EARNED WSCH	126.08 33.58 81.00 102.00 87.50 385.05 890.21	52.00 1952.00 134.50 47.85 557.85	33.00 28.00 61.00	213.00 117.00 31.00 361.00	4 3,288,288,38 3,488,48 3,48,000 3,500 0,000	78.00	75.00 72.00 147.00	139.65 21.00 13.00 358.80 335.25
OSSMO JOLL WSCH ALLLEYSI SHORT TERM		MAX WSCH/FTEF	593.90 713.85 750.00 750.00 7598.80 760.12 699.86	749.06 749.06 720.06 749.54 560.00	522.38 522.38 522.38	787.50 675.00 671.64 742.12	3990 3800.97 3600.997 751.87 360.990 450.990	500.00	750.00 750.00 750.00	455.79 530.30 537.31 228.00 213.12 219.20
GRO; SUBJECT W ONLY *** ALL	NAL STUDIES	MAX WSCH	138.38 59.25 150.00 100.00 80.00 721.97	200.00 200.00 200.00 72.00 39.69 627.69	35.00 35.00 70.00	315.00 135.00 45.00 495.00	104.00 104.00 104.00 100.00 100.00 648.00	75.00	150.00 300.00	174.57 35.00 386.00 359.25 359.25
1:11:02 SSMONT COLLEGE	AND PR	TOTAL FTEF	. 233 . 083 . 200 . 167 . 167 . 949	.267 .267 .100 .133	.067 .067 .134		1	.150		.383 .0666 .0677 .1.6884 .1.6385
21-2004 1	BUSINESS	TOP	210500 210500 210500 210500 210500 210500	051400 050200 050200 050200 050990 050990	130630	130510 130510 130510	070300 070300 070300 070300 070300 070300 070300	121300 TE	219900 219900 SC	120300 120300 120300 120300 120300
SKDS7I-1 RUN ON:	- N(SUBJECT	AOU 100 AOU 101 AOU 110 AOU 142 AOU 251B AOU 251B AOU 299 ****** AO	BUS 086 BUS 120 BUS 121 BUS 252 BUS 256 BUS 256 BUS 257	CA 163 CA 166 ****** CA	CD 125 CD 128 CD 299 ***** CD	CSIS142 CSIS143 CSIS144 CSIS144 CSIS174 CSIS174B CSIS174B CSIS274B	CVTE225 ****** CVT	HESC205 HESC206 ****** HE	NURS110 NURS117 NURS119 NURS133 NURS135 NURS135

COLLEGE SUBJECT WSCH 31-2005 10:22:57 SKUS / 1 - IN'S RUN ON: REPORT II

		% OF MA	80.63	91.66 91.66 91.66 117.33 88.88 105.88 70.58	104.44 84.44 62.10 77.83	93.33 76.66 85.00	3700.00 66.66 80.00 72.30 57.14 68.57	51.42 400.00 540.00 54.16 6.116 6.116	122.85 995.95 665.65 63.33 82.39
	CLASSES ***	EARNED WSCH/FTEF	429.63	827.06 4255.94 4255.994 274.28 308.57 312.53 311.47	705.00 570.00 442.50 540.00	420.00 345.00 382.50	282.00 299.46 290.00 290.00 350.00	270.67 258.06 234.00 234.23 194.02 240.56	644.19 351.81 299.62 219.23 95.00
CLASSES ***	*** CENSUS	EARNED WSCH	4601.00	110.00 220.00 440.00 220.00 176.00 108.00 690.00 2189.00	141.00 114.00 177.00 432.00	84.00 69.00 153.00	37.00 680.00 42.00 336.00 211.50 90.00 1504.50	36.00 13.00 3.00 3.00 3.00	172.00 387.00 86.00 142.50 199.50
SHOR' ERM		MAX WSCH/FTEF	532.82	9002 4664.0 4664.0 34664.0 308.0 201.4 409.0 440 15.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	675.00 675.00 712.50 693.75	450.00 450.00 450.00	423.55 589.88 374.33 1300.00 700.00 489.03	5266 6466 6466 6466 6466 6466 6466 6466	524.34 368.18 676.69 346.15 150.00
ONLY *** ALL	ONAL STUDIES	MAX WSCH	5706.00	120.00 240.00 480.00 240.00 150.00 102.00 750.00 2367.00	135.00 285.00 555.00	90.00 90.00 180.00	1020.00 420.00 420.50 292.50 157.50 2100.00	70.00 210.00 296.00 120.00 624.00	140.00 405.00 90.00 120.00 225.00 315.00
GROSSMONT COLLEGE	AND PROFESSION	TOTAL FTEF	10.709	1.267 1.033 1.033 1.517 1.350 2.075 5.075	200 8400 0000	. 200	2.4 0.088 1.122 2225 2225 2255 44	.133 .217 .350 .2222 .283 .067	1.267 1.100 1.133 .267 .650 2.100 4.517
JI-ZUUS IN UDES: GROS	BUSINESS	TOP	IS	121300 121300 121300 121300 121300 121300 121300	130400 130400 130400	219900 219900 SC	1203300 1203300 1203300 1203300 1203300 120300 RS	121800 121800 121800 121800 121800 121800	121000 121000 121000 121000 121000 121000
EPORT II	NOISIVI	SUBJECT	SD *****	CVTE100 CVTE101 CVTE103 CVTE200 CVTE201 CVTE202 CVTE203 CVTE203 CVTE205 CVTE206	FS 110 FS 115 FS 120 **** FS	HESC110 HESC150 ***** HE	NURS120 NURS120 NURS201 NURS203 NURS255A NURS255B NURS255B	OTA 100 OTA 101 OTA 110 OTA 210 OTA 220 OTA 230	RESP105 RESP108 RESP114 RESP208 RESP202 ***** RE

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SUBJECT WSCH ?

COLLEGE ONLY *** ALL SHORT 15-2006 08:19:56 JDES: GROSSMONT (

STUDIES

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KDS71-UN ON: EPORT

m,m 044WQN44K0009NW@NN OF 448242004467477 2822601440767477 200601440767 mm**NNNN4** 88880/0 EARNED WSCH/FTEF 10000000000000044004C0w 00 14681 90900 09 **04444** 00000 WSCH 00 000000000000000000000 00000 EARNED 22 002 004 100 100 MAX WSCH/FTEF 75.00 27972 7,80,44 000044084400004410041000 002 002 449 644 ં છં છ 000444004400404440044400 WSCH 11135.000 17135.000 17135.000 17135.000 1755.000 1755.000 1755.000 1755.000 1755.000 1755.000 00000 00 50000 Ω 13 FTEE 200

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SES *** GROSSMONT COLLEGE SKDS71-INC

ISIS .RM CLASSES ***	*** CENSUS CLASSES ***
RUN ON: 0 5-2006 08:19:56 SUBJECT WSCH A ISLS REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT RAY CI	DIVISION BUSINESS AND PROFESSIONAL STUDIES

% OF MAX	100.00 112.50 70.58 90.00 112.50 40.00	95.55 63.00 55.78 66.25	106.66 70.00 88.33	100.00 1.66 105.71 82.85	94.28 65.71 37.50 37.50 58.48	95.55 95.55 86.00 97.14 97.14	42.85 37.14 100.00 28.57 50.00 40.63
EARNED WSCH/FTEF	274.28 308.57 205.71 303.37 295.08 356.56	645.00 472.50 397.50 477.00	480.00 315.00 397.50	229.26 20.00 261.17 580.00 246.09	4496.28 394.28 162.28 159.01 134.01 45	644.19 351.81 646.61 509.36 392.30 113.33	224.71 195.48 21.00 149.81 149.25 208.48
EARNED WSCH	96.00 108.00 72.00 675.00 54.00 2154.00	129.00 189.00 159.00 477.00	96.00 63.00 159.00	680.00 4.50 444.00 130.50 1259.00	66.00 1382.00 36.00 45.00 86.00	387.00 387.00 136.00 255.00 357.00	60.00 26.00 21.00 40.00 10.00 167.00
MAX WSCH/FTEF	274.28 274.28 291.42 337.07 262.29 750.00	675.00 750.00 712.50 720.00	450.00 450.00 450.00	229.26 1200.00 247.05 700.00 298.57	526.31 6455.16 600.00 432.43 424.02 358.20 518.86	674 3684 3684.15 3624.38 1169.33 116.66	524.34 526.31 529.34 598.30 598.50 513.50
MAX WSCH	96.00 96.00 102.00 750.00 48.00 150.00	135.00 300.00 285.00 720.00	90.00 180.00 00.00	680.00 270.00 420.00 157.50 1527.50	140.00 210.00 210.00 120.00 120.00 660.00	180.00 405.00 100.00 140.00 240.00 367.50	140.00 21.00 140.00 20.00 20.00 411.00
TOTAL, FTEF	2333 2350 2225 2033 2033 1			2.966 .2255 1.700 5.116		0000000	
aor rogiano	2002 2002 2003 2003 11 2008 2009 11 2009	FS 110 130100 FS 115 130100 FS 120 130100 ***** FS		24	OTA 100 121800 OTA 101 121800 OTA 110 121800 OTA 210 121800 OTA 220 121800 OTA 230 121800	*EEEEEE*******************************	LP

*** CENSUS CLASSES *** GROSSMCNTT COLLEGE
SUBJECT WSCH ALYSIS

L. LUDES: GROSSMONT COLLEGE ONLY *** ALL SHO, TERM CLASSES ***

DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

*** CENTON

% OF MAX	95.00 85.45	120.00 945.00 945.00 847.44 621.22 601.00 116.00 955.05 955.05 1000.00 1000.00 1000.00	20800000000000000000000000000000000000	88.00 81.66
EARNED WSCH/FTEF	283.58 352.05	44 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	32222 222222	328.35 736.84
EARNED WSCH	19.00 94.00	15.00 15.00 1504.00 1144.00 168.00 174.00 1729.00 135.00 135.00	1188 8880 1488 1488 1400	22.00 98.00
MAX WSCH/FTEF	298.50 411.98	444447746464646464646464646464646464646	00000000000000000000000000000000000000	373.13 902.25
MAX WSCH	20.00	30.00 60.000 1935.000 135.000 135.000 105.000 125.000 135.000 135.000 135.000 1135.000 1135.000 1135.000	19355 19440 1944000 1240000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000	25 20
TOTAL FTEF	. 067	7 000000000000000000000000000000000000	いいは.uu4.4000000000000000000000000000000000	. 06
TOP	130630	11111111111111111111111111111111111111	070 070 070 070 070 070 070 070 070 070	121300 121300
DIVISION	280 * CA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	COCCESTING	CVTE1107 CVTE110

SUBJECT WSCH A JDES: GROSSMONT COLLEGE ONLY *** ALL SHORT

VOLLEGE YSIS RM CLASSES ***

* *	% OF MAX	58.83 37.77 109.99 55.55 68.55	98.66 89.00 37.50 31.50 79.80	100.00 74.28 87.14	96.66 60.00 77.77 55.55	81.11 448.07 96.00 77.15 70.14	52.00	26.00 34.00 30.00	114.70 98.33 127.77 108.57 90.00
CENSUS CLASSES	EARNED WSCH/FTEF	458.31 285.20 680.12 435.00 463.22	554.30 666.66 270.00 239.84 135.00 517.05	522.38 388.05 455.22	870.00 405.00 525.00 375.93 559.34	625.71 1872.19 360.96 721.80 155.41 150.37 400.60	260.00 375.00 325.71	195.00 255.00 225.00	449 446.94 343.28 567.16 202.50 2.12
*** DAILY C	EARNED WSCH	95.33 270.94 665.84 174.00 1306.29	296.00 356.00 27.00 31.90 13.50 724.40	35.00 26.00 61.00	174.00 81.00 105.00 50.00 410.00	4 872 874 804 800 800 800 800 800 800 800 800 80	39.00 75.00 114.00	39.00 51.00 90.00	243.75 229.50 23.00 324.00 333.00
	MAX WSCH/FTEF	665.28 754.93 618.29 675.50 675.00	561.79 749.06 720.00 749.54 360.00 647.88	522.38 522.38 522.38	900.00 675.00 675.00 736.69	340.942 350.947 751.87 360.980 360.990 569.455	500.00 1125.00 857.14	750.00 750.00 750.00	391.84 258.54 222.38 225.00 225.00
NAL STUDIES	MAX WSCH	138.38 44.44 717.19 605.31 261.00 135.00	9000 4000 4000 722 900 900 900 900 900 900 900	35.00 35.00 70.00	1380 1380 1385 000 000 000 000	211111 H 40011 HH 4000444HN 000000000000000000000000000	1-20	180.00 300.000	212.50 30.00 18.00 350.00 360.00
AND PROFESSIO	TOTAL FTEF		.534 .100 .133	.067 .067 .134	. 200 . 200 . 133	7	.200.359		. 542 . 066 . 067 1 . 600
BUSINESS AN	TOP	210500 210500 210500 210500 210500	050200 050200 050300 050800 050800	130630	130500 130500 130500 130500	070100 070100 070100 070100 070100 070100	· [S	
NI TAKE	1	*	BUS 120 BUS 121 BUS 252 BUS 256 BUS 256 BUS 257	CA 163 CA 166 ***** CA	CD 125 CD 129 CD 137 CD 299 ****** CD	CSIS110 CSIS1142 CSIS1442 CSIS1443 CSIS173 ************************************	**************************************	HESC205 HESC206 ******	NURS110 NURS117 NURS118 NURS119 NURS130

FERM CLASSES ***	*** CENSUS CLASSES ***
ROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***	- BUSINESS AND PROFESSIONAL STUDIES
J. T. T. J.	DIVISION

% OF MAX	81.66 81.66 81.66 88.00 80.00 106.25 60.00 75.00 112.50 78.72	78.00 108.00 61.05 77.43	68.33 111.66 77.40	37.14 37.14 37.14 37.14	114.28 114.28 100.00 100.00 73.33 86.955 63.85	33.4.2.2.4.2.2.4.2.2.4.2.2.2.2.2.2.2.2.2	76.88
EARNED WSCH/FTEF	734.08 379.147 206.111 2091.46 2005.71 2055.30 369.71	585.00 810.00 435.00 566.25	290.21 261.46 280.88	195.48 222.85 229.68 220.62	600.00 342.85 1144.28 585.00 329.58 110.00 185.32	194.75 284.64 164.79 214.73	399.66
EARNED WSCH	196.00 392.00 196.00 176.00 72.00 675.00 54.00	117.00 162.00 174.00 453.00	697.00 301.50 998.50	26.00 78.00 65.00 169.00	120.00 360.00 117.00 14.50 231.00 1286.50	52.00 76.00 44.00	22936.00
MAX WSCH/FTEF	8998 464.66 464.66 3461.83 342.88 342.88 751.29 751.87 65.29	750.00 750.00 712.50 731.25	424.69 234.15 362.88	526.31 600.00 618.37 593.99	525.00 401.42 100.00 600.00 449.43 175.00 213.91	524.34 524.34 524.34 524.34	*******
MAX WSCH	240.00 240.00 200.00 120.00 120.00 900.00 48.00 2689.00	150.00 150.00 285.00 585.00	1020.00 270.00 1290.00	70.00 210.00 175.00 455.00	105.00 315.00 120.00 120.00 367.50 367.50	140.00 140.00 140.00 420.00	AL STUDIES 29830.00
TOTAL FTEF	2667 267 267 267 267 267 267 267 267 267	 2248 0000 0000	2.401 1.153 3.554	.133 .350 .7883	3.150 3.150 2.200 2.267 2.150	86666	AND PROFESSIONA 57.387
ТОР	121300 121300 121300 121300 121300 121300 121300	130100 130100 130100	123010 123010 RS	121800 121800 121800 A	121000 1210000 1210000 1210000 1210000 1210000		BUSINESS A
SIBIECT	CV CV CV	FS 110 FS 115 FS 120 ***** FS	NURS120 NURS155B ****** NU	OTA 120 OTA 130 OTA 140 ****** OTA	* * * * * * * * * * * * * * * * * * *		* * * * * * *

LLEGE GROSSMONT SKDSQW-IN

WSC. ANALYSIS RT TERM CLASSES ***	*** CENSUS CLASSES ***
RUN ON: 16-17-2006 08:12:58 REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***	DIVISION BUSINESS AND PROFESSIONAL STUDIES

% OF MAX	90.06	1 608 608 609 609 609 609 609 609 609 609 609 609	08887 W C 808 80 A R C C C C C C C C C C C C C C C C C C	100.00 883.00 855.00
EARNED WSCH/FTEF	268.65 370.78	24 24 24 24 24 24 24 25 26 26 26 26 26 26 26 26 26 26	40000000000000000000000000000000000000	238.80 766.91 749.06 394.96
EARNED WSCH	18.00	11 142284600 142286000 12286000 123560000 14480000 14480000 1733000 1733000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.00 2002.00 4008.00 204.00
MAX WSCH/FTEF	298.50 411.98	444 4446 4446 4446 4466 4	00844784844484844844444 0000000000000000	238.8 902.25 898.25 464.66
MAX WSCH	20.00	4 4 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E U U U U U U U U U U U U U U U U U U U	120.00 240.00 480.00 240.00
TOTAL FTEF	.267		и ф тании тании	.067 .133 .267 1.033
TOP	130630	00000000000000000000000000000000000000	00000000000000000000000000000000000000	121300 121300 121300 121300 121300
SUBJECT	CA 280	** ** ** ** ** ** ** ** ** ** ** ** **	**************************************	CVTE1107 CVTE1110 CVTE1112 CVTE112

GROSSMONT SUBJECT WE ALL SHORT * * ONLY COLLEGE 7-2006 08:12:58 JDES: GROSSMONT (ÄT.

.717. 0000 mow m HM WHHHHH OF 0004 1807 17771831 വവവവ oooooooo७७७७ EARNED WSCH/FTEF *** 8100001 747708000 0000 0000 ~യയം യവസന 253 180 240 254 8. 0.000 1.000 CLASSES 525. 487. 427. 345 3964 3906 3906 700000000CENSUS WSCH 0000 0000 00000000 0000 00000000 ~OLLEGE ANALYSIS _ARM CLASSES 663. 40. 76. 105 195 171 471 EARNED H0898448K രവയയ 00049.00 000 48H0 MAX WSCH/FTEF 0820822 0070008800 4004 000 000 000 0470004 04004 0404 0000 4079 0000 momo 750.0 750.0 712.0 735.0 6475. 675. 71128. 71164. 7000. 260 300 350 450 9000 525 60 59 59 WSCH STUDIES 00000000 0000 0000 0000 0000000 135.00 1435.00 1435.00 1440.00 1465.00 1405.00 870.00 85.00 85.00 00000000 0000 0000 150 300 285 735 10 10 75 55 9170 PROFESSIONAL 된 44www214422 www.0008ww00 woooww000 .2255 .0255 .061 2000 000 000 000 133 350 283 766 FJ TOTAL 2 9 ~ AND BUSINESS 123010 123010 123010 0000000 000 000 301(301(301(227 ഗ SP SB MB MB OTA 120 OTA 130 OTA 140 CVTE210 CVTE211 CVTE212 CVTE213 CVTE218 CVTE218 CVTE230 CVTE230 RESP116 RESP118 RESP122 RESP150 RESP205 RESP232 RESP232 RESP232 *1110 1120 1050 SUBJECT 200 DIVISION NURS12 NURS15 NURS15 **** KDSOW-TUN ON: EPORT * លលល់ស *म्यम्य

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OLLEGE ANALYSIS JRM CLASSES *** SKDSQW-IN GROSSMONT RUN ON: 17-2006 08:12:58 SUBJECT WE SUBJECT WE REPORT IN JUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT

* *	% OF MAX	1 2224 80266 80066 1000 1000 1000 1000 1000 1000 1	1 02 02 02 02 02 02 02 02 03 03 03 03 04 04 04 04 04 04 04 04 04 04 04 04 04	51.81 1000.00 18.88 58.88	5488861 6488861 6488860 648886 64888 6488 6488 6488 64888 64	76.00	20.00 32.00 65.71 45.17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CENSUS CLASSES	EARNED WSCH/FTEF	2900 1422.34 60182.34 3607.89 72000 320000 200000	39 39 44 44 44 44 44 44 44 44 44 44 44 44 44	427.50 225.00 510.89 398.48	44828420 2848210 284852 48485 4865 1000 1000 1000 1000 1000 1000 1000	380.00	150.00 240.00 345.02 280.72	21898 2088 2088 2088 2081 2081 2081 2081 208
*** DAILY C	EARNED WSCH	67.65 1911.85 5951.25 1447.00 1085.00	2248 260 260 260 50 50 50 50 50 50 50 50 50 50 50 50 50	171.00 45.00 102.69 319.19	2 994 984 986.00 986.00 986.00 986.00 986.00 986.00 986.00	57.00	30.00 48.00 184.00 262.00	22 33 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35
	MAX WSCH/FTEF	68888888888888888888888888888888888888	56 726 7249 729 720 720 56 56 56 76 76 76 76 76 76 76 76 76 76 76 76 76	825.00 337.50 741.64 682.98	771.42 751.87 751.87 751.87 751.87 761.087	500.00	750.00 750.00 525.03 621.45	223617 223617 223617 223617 22
ONAL STUDIES	MAX WSCH	138.38 44.44 717.19 595.31 261.00 135.00 1955.80	84 7000 722.00 722.00 72.00 7.00 80 80 80	330.00 67.50 149.07 547.07	540 1000 1000 1000 1000 1000 1000 1000 1	75.00	150.00 280.00 580.00	2 wwwww 24,420 26,000 20,00
AND PROFESSION	TOTAL FTEF	2		.200 .201 .801	1	.150	00056 0000 0000 0000 0000 0000 0000 000	11.01.
BUSINESS	TOP	22222222222222222222222222222222222222	0050 0050 0050 0050 0050 0050 0050 005	130500 130500 130500 130500	070100 070100 070100 070100 070100 1 S	121300 TE	219900 219900 219900 SC	000000000 11111111111 0000000000 200000000
NOISINIG	SUBJECT	AOU 100 AOU 101 AOU 104 AOU 107 AOU 110 AOU 142 AOU 250B ****** AO	BUS 086 BUS 121 BUS 252 BUS 256 BUS 256 BUS 256 BUS 257	CD 125 CD 138 CD 199 CD 299 *****	CSIS110 CSIS144 CSIS144 CSIS145 CSIS145 CSIS172 CSIS172 ************************************	CVTE225 ****** CVT	HESC205 HESC206 HESC299 ***** HE	NURS110 NURS118 NURS119 NURS130 NURS211 NURS220 NURS220 NURS220 NURS220 NURS220

CLASSES

CENSUS

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WO4W04RW00A4RW00A

W044040L004040WH

GROSSMONT SUBJECT WS(ALL SHORT ଊ *** COLLEGE ONLY 006 08:12:58 : GROSSMONT V-IN V: 1 7-20 FINCLUDES:

LLEGE ANALYSIS ERM CLASSES Ъ П STUDI PROFESSIONAL AND INESS BUS. ON KDSOW-KUN ON: EPORT SI

OF 00 WO4W04RW004RZOH0 CIOMIDIO \overline{o} 008L44HN848WW0N0 $\bigcirc \infty \infty \infty \infty$ ٥١٥ EARNED WSCH/FTEF ω 04007H08M48H5000GM084700 04000 97 #1000F000ww00000mmwyyw04 80000 ∞ O ストの5655404046200010804F856 89044 W0400 9 ω $\alpha \omega$ 04 NPPMM MS(000 00000 00000 004800041w-EARNED $\infty \omega$ 97084 1912222 10 H0000 **L242** ĪП MAX CH/FT 700400000 000200000 08 16750 50 700000 87 ∞ 194 2000 W MS 4400000LW0 1/W4004444W4W44W4444W 70044 WSCH 00 00000 00000 00 77 HWWWOWWAJUWOW 40 L2484 192214 $\omega \omega H$ HQH QHHHH Q H L247 되 FT 0 12 M 1 M 1 99 70 MOMON 00 04084409000000 94 20510 TOTAL Ø α 000000000000000000000 00000 63 000000000000000000000 00000 130 22222 S CA \circ SUBJECT MOHON CVTE1107 CVTE1111 CVTE1112 CVTE113 $\widetilde{\infty}$ N* * HHHHHHHHHHHHHHNNNNN* \star 4. V*

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SKDSQW-IN RUN ÖN: 1 7-2006 08:12:58 SUBJECT WS(MALYSIS REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT LERM CLASSES ***

*** CENSUS CLASSES *** DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

	% OF MAX	89.44 1122.50 1722.50 711.66 34.00 75.33	70.00 65.00 64.00 64.08	97.50 30.00 28.33 71.88	65.71 65.71 65.71 65.71	00000000000000000000000000000000000000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ARNE	WSCH/FTEF	371.82 30571.82 1888.1144 2095.086.577 3755.68 5.00	525.00 487.50 427.50 471.00	253.90 180.00 340.00 254.80	345.86 394.28 406.36 390.33	13425 114425 114425 15095 18095 1833 1833 1833 1833 1833 1833	224.71 194.75 164.75 74.62 183.95
	EARNED WSCH	161.00 108.00 665.00 645.00 34.00 75.00	105.00 195.00 171.00 471.00	663.00 40.50 76.50	46.00 138.00 115.00 299.00	123.00 360.00 123.00 1367.00 1501.00	60.00 52.00 44.00 4.00 172.00
-	WSCH/FTEF	415.70 274.28 342.28 400.00 751.87 1125.00	750.00 750.00 712.50 735.00	260.41 600.00 1200.00 354.43	526.31 600.00 618.37 593.99	675 675 1281 6728 524 700 700 600 600 614	524 524 524 524 524 534 54 7 7 7 7 9 9 9 9 9 9 9 9 14 9 9 14 9 9 9 9 9 9 9
	MAX WSCH	180 96.00 96.00 900.00 148.00 2255.00	150.00 300.00 285.00 735.00	680.00 135.00 270.00 1085.00	70.00 210.00 175.00 455.00	135.00 405.00 135.00 140.00 167.50	140.00 140.00 140.00 10.00 446.00
	TOTAL FTEF		.200 .400 .1.000	2.611 .225 3.061	. 133 . 283 . 766	3200 3.150 3.150 3.150 7.150 7.950	
	TOP	121300 121300 121300 121300 121300 121300	130100 130100 130100	123010 123010 123010 RS	121800 121800 121800 A	12210000 12210000 12210000 12210000 12210000 8P 000	1222000 1222000 1222000 1222000 1220000 PA
1 1 1 1	SUBJECT	CVTE210 CVTE211 CVTE212 CVTE213 CVTE218 CVTE218 CVTE230 CVTE299	FS 110 FS 115 FS 120 ***** FS	NURS120 NURS155A NURS155B ****** NU	OTA 120 OTA 130 OTA 140 ****** OT	RESP116 RESP118 RESP122 RESP150 RESP150 RESP205 RESP232 RESP232 RESP232	SLPA100 SLPA110 SLPA199 SLPA200 SLPA216 SLPA216 ****** SL

74.11

383.45

22418.50

517.34

30246.50

58.465

****** BUSINESS AND PROFESSIONAL STUDIES

SKDSQW-IN
RUN ÖN: 1, _7-2006 08:12:58
REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***

*** DAILY CENSUS CLASSES *** DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

: :	% OF MAX	442001 870001 870000 870000 8700000 8700000 8700000000	10880.00 6820.066 592.066 92.000 108	51.81 100.00 68.88 58.34	564. 386. 386. 400. 568. 56. 56. 56. 56. 56. 56. 56. 56. 56. 56	76.00	20.00 32.00 65.71 45.17	1122. 19152. 1925. 1925. 1937. 1937. 1937. 1937. 1937. 1937. 1937.
CICCAIL) COCNI	EARNED WSCH/FTEF	290.34 218.99 601.89 367.50 340.00 378.00 378.00	39.17 44864.41.7 4405.00 3905.00 3905.00	427.50 225.00 510.89 398.48	44420 28421 28421 28425 285 285 285 285 285 286 285 285 285 285 285 285 285 285 285 285	380.00	150.00 240.00 345.02 280.72	212 208 208 208 208 208 208 208 208 208 20
O IUIPI	EARNED WSCH	67.65 11.85 191.25 595.31 147.00 48.00 1085.06	22480 24480 246080 24080 24080 33080 33080 33080 33080 33080 33080	171.00 45.00 102.69 319.19	294 566.00 486.00 388.00 1058.00 1058.00	57.00 57.00	30.00 48.00 184.00 262.00	2 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	MAX WSCH/FTEF	00000000000000000000000000000000000000	561.79 720.06 720.00 720.00 720.00 565.4	825.00 337.50 741.64 682.98	771.42 751.87 751.87 751.87 751.87 751.87	500.00	750.00 750.00 525.03 621.45	44522222222222222222222222222222222222
NAL SIODIES	MAX WSCH	138.38 717.19 717.19 595.31 261.00 135.00 1946.82	4300 4000 4720 600 600 600 600	330.00 67.50 149.07 547.07	54 10000 10000 10000 10000 11000 11000 11000 11000 11000 11000	75.00	150.00 280.00 580.00	2 wwwww 244,00000000000000000000000000000000000
AIND FROFESSION	TOTAL FTEF	2		.200 .201 .801		.150	00 mm	11.522
DOSTINESS	TOP	2210500 22105000 22105000 22105000 22105000	051400 0502000 0502000 0509000 0508000 0508000	130500 130500 130500 130500	070100 070100 0701000 0701000 0701000 1 S	121300 TE	219900 219900 219900 SC	000000000 1000000000000000000000000000
NOTETATA	SUBJECT	AOJ 100 AOJ 101 AOJ 104 AOJ 107 AOJ 110 AOJ 142 AOJ 250B ***** AO	BUS 086 BUS 120 BUS 121 BUS 252 BUS 256 BUS 256 ***** BU	CD 125 CD 138 CD 199 CD 299 ***** CD	CSIS110 CSIS142 CSIS1443 CSIS1444 CSIS1445 CSIS145 ************************************	CVTE225 ****** CV	HESC205 HESC206 HESC299 ****** HE	NURS110 NURS1118 NURS1119 NURS132 NURS211 NURS220 NURS220 NURS220 NURS220

*** CENSUS CLASSES *** SKDS71-INS RUN ON: 0 3-2006 08:19:56 SUBJECT WSCH AN 'SIS REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT _ M CLASSES *** DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

WAN GO	OF 53.3	.3	168.18 82.00 82.22 83.33 84.33 84.55 60.00 6	WOQW4WHRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	85.00 85.00 85.00 85.00
EARNED	CH/F1EF 60.00	360.00	313 518 518 518 518 518 518 518 518	60894949018888009604416008 5000008804900000000000000000000000000000	766.91 764.04 394.96 394.58
	D WSCH	72.00	21.00 1111.00 1111.00 1111.00 1473.00 1882.00 318.00 318.00 102.00 30.00 102.00 30.00	15005 115005 1112000 11120000 1120000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 120000000 12000000 1200000000	102.00 204.00 408.00 204.00 171.00
MAX	CH/FTEF	675.00	744466 767466 767466 77767 7776 7776 77	688 3680 3680 4260 4260 421 420 420 430 440 440 440 440 440 440 44	902.25 898.87 464.66 464.21 346.42
1	AX W	135.00	50.00 135.00 1713.00 1713.00 275.00 420.00 155.00 135.00 3899.00	19385. 19420. 19420. 19440. 19444. 19444. 19444. 19444. 19444. 19444. 19	120.00 240.00 240.00 150.00
AND FROFESSIO	Ēų C	.200		2	. 133 . 267 1. 033 . 517 . 433
BUSINESS	صّ ر	130630	00000000000000000000000000000000000000	070100 070100 070100 070100 070100 070100 070100 070100 070100 070100 070100 070100 070100 070100 070100	121300 121300 121300 121300
LVISION	UBJECT	CA 16/ ***** CA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CSSISSISSISSISSISSISSISSISSISSISSISSISSI	CVTE100 CVTE101 CVTE102 CVTE103

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CLASSES

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THEGE SIS CLASSES j GROSSMONT SUBJECT WSCH AN *** ALL SHORT COLLEGE ONLY 5-2006 08:19:56 LUDES: GROSSMONT (INCL KDS7I-UN ON:

IVISION -- BUSINESS AND PROFESSIONAL STUDIES

GROSSMO' COLLEGE

LY-2006 11:33:31
SUBJECT WSCH
LYSIS
LEPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHOR' L'ERM CLASSES ***

	% OF MAX	95.00 85.45	120.00 120.00 445.00 621.33 71.11 78.50 100.00 100.00 100.00 100.000 100.000 100.000	288989778888778897787777777777777777777	88.00 81.66
CLASSES ***	EARNED WSCH/FTEF	283.58 352.05	44	822223232323232323232323232323232323232	328.35 736.84
*** CENSUS	EARNED WSCH	19.00	1125.00 1126.00 11286.00 11887.00 1787.00 1787.00 1295.00 1372.00 1372.00 1372.00	1188 8986 1086	22.00
	MAX WSCH/FTEF	298.50 411.98	444466666200000000000000000000000000000	00044404444444444444444444444444444444	373.13 902.25
NAL STUDIES	MAX WSCH	20.00	α THMMPONOUNOONNOOO	1 355 1 920 1 1440 1 1440 1 120 1 12	25.00 120.00
AND PROFESSIO	TOTAL FTEF	.067	00000000000000000000000000000000000000	2 01 0 00 0 00 0 00 0 0 0 0 0 0 0 0 0 0 0	. 067
BUSINESS		130630	00000000000000000000000000000000000000	00000000000000000000000000000000000000	121300 121300
DIVISION	SUBJECT	CA 280	**************************************	COST COST COST COST COST COST COST COST	CVTE107 CVTE110

DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

*** ALL SHORT "TRM CLASSES ***

*** CENSI

*** CENSUS CLASSES ***

% OF MAX	81.66 81.66 81.66 80.00 106.25 60.00 112.50 78.00	78.00 108.00 61.05 77.43	68.33 111.66 77.40	37.14 37.14 37.14 37.14	114.28 114.28 100.00 73.33 62.85 63.96	37.124 01.128 01.44 0.95	76.88
EARNED WSCH/FTEF	73374 9374 9374 9282 9282 9282 9285 9385 9385 9385 9385 9385 9385 9385 93	585.00 810.00 435.00 566.25	290.21 261.46 280.88	1952 2222.48 2229.68 20.68	8600 13402 1812 1812 1810 1810 1810 1810 1810 18	194.75 284.64 164.79 214.73	399.66
EARNED WSCH	196.00 196.00 176.00 102.00 675.00 675.00 117.00	117.00 162.00 174.00 453.00	697.00 301.50 998.50	26.00 78.00 65.00 169.00	120.00 360.00 117.00 231.00 1286.50	52.00 76.00 44.00	22936.00
MAX WSCH/FTEF	89 4664 4664 4664 4664 4664 4664 4664 46	750.00 750.00 712.50 731.25	424.69 234.15 362.88	526.31 600.00 618.37 593.99	525.00 1001.040 6000.000 444.50 175.00 213.00	2222 2222 24222 24444 2222 24444	*******
MAX WSCH	240.00 2480.00 2240.00 1200.000 900.000 1480.00	150.00 150.00 285.00 585.00	1020.00 270.00 1290.00	70.00 210.00 175.00 455.00	105.00 340.00 315.00 120.00 120.00 367.50 1485.00	140.00 140.00 420.00	NAL STUDIES 29830.00
TOTAL FTEF	1.0267 5033 .3500 .3500 .1833 .1833	 8400 000 000	2.401 1.153 3.554	. 133 . 350 . 766	3.200 3.1875 3.200 2.200 2.267 6.950		AND PROFESSION 57.387
TOP	121300 12213300 12213300 12213300 12213300 12213300	130100 130100 130100	123010 123010 RS	121800 121800 121800 TA	12210000 12210000 12210000 12210000 12210000 1210000	122000 122000 122000 122000	BUSINESS A
SUBJECT	CVTE111 CVTE112 CVTE113 CVTE211 CVTE212 CVTE213 CVTE213 CVTE218 CVTE218 CVTE218 CVTE218	FS 110 FS 115 FS 120 ***** FS	NURS120 NURS155B ****** NUR	OTA 120 OTA 130 OTA 140 ****** OT	RESP116 RESP1118 RESP1120 RESP1999 RESP205 RESP205 RESP205 ****	SLPA100 SLPA110 SLPA200 ****** SL	****

GROSSMONI COLLEGE ONLY *** ALL SHORT RM CLASSES ***

% OF MAX	68.89 56.66 1037.77 109.99 55.55 68.70	988.66 37.00 37.50 37.50 79.80	100.00 74.28 87.14	96.66 77.77 75.55 75.92	81.11 9448.007 96.007 75.1166 75.1166	52.00 33.33 38.00	26.00 34.00 30.00	114.70 98.33 127.77 108.57 90.00
RNED H/FTEF	4588 2885.31 6885.37 4735.00 4375.00	554.30 666.66 270.00 239.84 135.00 517.05	522.38 388.05 455.22	870.00 405.00 525.00 375.93 559.34	6255 1872 360.90 721.80 165.41 240.60	260.00 375.00 325.71	195.00 255.00 225.00	4449.47 4446.96 3443.28 567.16 202.50 208.12
NED WSCH	95.33 25.18 270.94 665.84 174.00 1306.29	296.00 356.00 27.00 31.90 724.40	35.00 26.00 61.00	174.00 81.00 105.00 50.00 410.00	44 202 448 202 200 200 200 200 200 200 200 200 20	39.60 75.00 114.00	39.00 51.00 90.00	243.75 29.50 23.00 38.00 324.00
MAX WSCH/FTEF	6665.28 5355.28 6188.92 675.29 7.00	561.79 749.06 720.00 749.54 360.00	522.38 522.38 522.38	900.00 675.00 675.00 736.69	771.3900.947 3600.997 3600.997 5690.990 691.087	500.00 1125.00 857.14	750.00 750.00 750.00	391.84 454.54 268.65 522.38 225.00
MAX WSC	138.38 44.44 717.19 605.31 261.00 135.00	84 000 000 000 000 000 000 000 000 000	35.00	1380 1385 1385 1385 1385 1385 1385 1385 1385	84400044440 000044440 0444000044	225.00 305.00 305.00	300.000 300.000	212.50 30.00 18.00 35.00 360.00
TAL FTE	20083 0003 0003 0000 0000		.067 .067 .134		000 000 000 000 000 000 000 000 000 00			. 542 . 066 . 067 . 067 1 . 600
TOP	0000000	050200 050200 050900 050800 050800	130630	130500 130500 130500 130500	070100 070100 070100 070100 070100 070100	121300 121300 TE	219900 219900 SC	123010 123010 123010 123010 123010
SUBJECT	OU 100 OU 101 OU 104 OU 107 OU 110 *** * *	BUS 120 BUS 121 BUS 252 BUS 256 BUS 256 ***** BUS 257	CA 163 CA 165 ***** CA	CD 125 CD 129 CD 137 CD 299 *****	CSIS110 CSIS142 CSIS143 CSIS172 CSIS173B CSIS174B CSIS274B CSIS274B ***	CVTE225 CVTE299 ****** CV	HESC205 HESC206 ****** HE	NURS110 NURS117 NURS118 NURS119 NURS130 NURS132
	UBJECT TOP TOTAL FIEF MAX WSCH WSCH/FIEF EARNED WSCH/FIEF 8 OF	SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF & OF AOJ 100 210500 .208 138.38 665.28 95.33 458.31 68.8 AOJ 101 210500 .083 44.44 535.42 25.18 303.37 56.6 AOJ 107 210500 .950 717.19 754.93 270.94 285.20 37.7 AOJ 107 210500 .979 605.31 618.29 665.84 680.12 109.9 AOJ 110 210500 .400 261.00 652.50 174.00 375.00 66.6 AOJ 142 210500 .200 1901.32 674.22 1306.29 463.22 68.7	SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF & OF AOJ 100 210500 .208 138.38 665.28 95.33 458.31 68.8 AOJ 101 210500 .208 138.38 665.28 95.33 458.31 68.8 AOJ 107 210500 .979 6605.31 618.29 665.84 680.20 109.94 AOJ 107 210500 .200 135.00 675.00 174.00 435.00 66.66 AOJ 110 210500 .200 135.00 675.00 174.00 435.00 66.66 BUS 120 050200 .534 300.00 561.79 296.00 566.66 BUS 256 050900 .100 720.00 749.06 356.00 666.66 BUS 257 050800 .100 36.00 360.00 749.54 13.50 135.00 ****** BUS 257 050800 1133 36.00 647.88 724.40 517.05	SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH/FTEF MAX MSCH/FTEF MAX MSCH/FTEF & OF SUBJECT TOP TOTAL FTEF MAX MSCH/FTEF MAX	SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH/FTEF 8 OF SUBJECT TO TOTAL FTEF MAX WSCH WSCH WSCH WSCH WSCH WSCH WSCH WSCH	SUBJECT TOP TOTAL FTEF MAX WSCH NSCH/FTEF EARNED WSCH NSCH/FTEF S OF NSCH/FTEF S	SUBJECT TOP TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF & OF MAX WSCH WSCH/FTEF FARNED WSCH WSCH/FTEF WSCH WSCH/FTEF FARNED WSCH WSCH/FTEF FARNED WSCH WSCH/FTEF WSCH WSCH/FTEF FARNED WSCH WSCH WSCH WSCH WSCH WSCH WSCH WSCH	SUBJECT TOP AND 1001 210500 AND 1002 210500 AND 1004 2

*** CENSUS CLASSES *** SKDS71-INE
RUN ON: 16 1-2005 10:22:57
REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES *** DIVISION -- BUSINESS AND PROFESSIONAL STUDIES * * *

% OF MAX	80.63	91.66 91.66 117.33 105.888 72.00 92.00	104.44 62.10 77.83	93.33 76.66 85.00	3700.00 666.66 80.00 72.30 57.14 71.64	0440004 1004440 40001 200011 2000999	1222 9952. 663.555 823.3365 233365555	71.42 57.14 40.00
EARNED WSCH/FTEF	429.63	88224 442237 72642537 23746575 33737 33737 33737 33737 34737	705.00 570.00 442.50 540.00	420.00 345.00 382.50	24824444 24924444 24094644 2500000 25000000000000000000000000000	22255 2236 22340 22340 2236 2367 268 268 268 268 268 268	844 3514 6451.1 2096.61 295.03 6.00 200.03	374.53 300.75 209.73
EARNED WSCH	4601.00	1110 2220 2240 1220 1760 108 690 690 189 189 189 189	141.00 114.00 177.00 432.00	84.00 69.00 153.00	37.00 680.00 42.00 336.00 211.50 90.00 1504.50	3 6 6 7 8 8 7 8 7 8 8 7 8 9 9 9 9 9 9 9 9 9 9	172.00 387.00 86.00 142.50 1067.00	100.00 40.00 56.00
MAX WSCH/FTEF	532.82	0084488000844 00860400000000000000000000	675.00 675.00 712.50 693.75	450.00 450.00 450.00	423 3783 1300.00 7000.00 4890.00	526 6426 6044 60654 6050 6050 6050 6050 6050 60	3524 3624 44496.134 1560.153 60.000 69	524.34 526.31 524.34
MAX WSCH	5706.00	120 24840 24800 1500 1020 750 23 750 23 750 23 750 23 750 23 750 20 20 20 20 20 20 20 20 20 20 20 20 20	135.00 285.00 555.00	90.00 90.00 180.00	1020. 420.00 292.50 157.50 2100.00	70.00 210.00 196.00 120.00 60.00	140.00 405.00 120.00 225.00 315.00	140.00 70.00 140.00
TOTAL FTEF	10.709	1	 00048 0000	 2224 0000 000	2 1 4 40120202 80202020		1.1267 1.1300 1.133 2.1657 4.517	.267 .133 .267
TOP	SI	HELLITITION OOO OOO OOO OOO OOO OOO OOO OOO OOO	130400 130400 130400	219900 219900 SC	120300 1203300 1203300 1203300 1203300 1203300 RS	121800 1221800 12218000 1218000 1218000	121000 1221000 12210000 12210000 SP SP	122000 122000 122000
SUBJECT	*******	CVTE100 CVTE101 CVTE103 CVTE200 CVTE201 CVTE203 CVTE203 CVTE203 CVTE203 CVTE203 CVTE203	FS 110 FS 115 FS 120 ****	HESC110 HESC150 ***** HE	NURS000 NURS120 NURS201 NURS203 NURS255A NURS255B NURS255B NURS265A ******	OTA 100 OTA 101 OTA 110 OTA 210 OTA 220 OTA 220	RESP105 RESP108 RESP114 RESP115 RESP208 RESP222 *****	SLPA100 SLPA115 SLPA205

*** CENSUS CLASSES ***

SKDS71-IN RUN ON: 0 1-2004 11:11:02 SUBJECT WSCH A. YSIS REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT 1ERM CLASSES ***

DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

	% OF MAX	90.06	1143 8835 8835 8835 8935 8000 1000	824624767678767887678876787678767876787678767	116.00 78.33 78.33
	EARNED WSCH/FTEF	370.78	641447 641447 641447 641447 641447 641447 641447 641447 64147 6	######################################	432.83 706.76 704.11
	EARNED WSCH	00.66	11 204 200 1 1 204 200 1 1 204 200 200 200 200 200 200 200 200 200	2	29.00 94.00 188.00
	MAX WSCH/FTEF	411.98	44447766666666666666666666666666666666	00000000000000000000000000000000000000	373.13 902.25 898.87
STIP OF THE	MAX WSCH	110.00	1000 1000 1000 1000 1000 1000 1000 100	882 892 892 80242 80242 80242 802 802 803 803 803 803 803 803 803 803 803 803	25.00 120.00 240.00
Mary Liver Education	TOTAL FTEF	.267		4	. 133
	TOP	-4	11111111111111111111111111111111111111	I S 100000000000000000000000000000000000	121300 121300 121300
	SUBJECT	***** CA	**************************************	COST COST COST COST COST COST COST COST	CVTE107 CVTE110 CVTE111

COLLEGE	JRM CLASSES ***
GROSSMON SUBJECT WSCH A	E ONLY *** ALL SHORT
1-2004 11:11:02	DES: GROSSMONT COLLEGE
SAUS/1-10 RUN ON: 0	REPORT IN

DIVISION	BUSINESS	AND PROFESSIONAL	L STUDIES		*** CENSUS	CLASSES ***	
SUBJECT	TOP	TOTAL FTEF	MAX WSCH	MAX WSCH/FTEF	EARNED WSCH	EARNED WSCH/FTEF	% OF MAX
CVTE112 CVTE113 CVTE210 CVTE211 CVTE213 CVTE213 CVTE218 CVTE218 CVTE218	121300 121300 1213300 1213300 1213300 121300	1	2480 2400 2400 1200 1200 900 900 148 100 100 100 100 100 100	4444 40144 401444 40174 40174 4017 4017	376 1888 1179 1008 1008 690 690 510 105 105 105 105 105 105 105 105 10	22222222222222222222222222222222222222	1 1 000 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
FS 110 FS 115 ***********************************	130400 130400 130400	 2248 0000 0000	1150 2850 500 500 500	750.00 750.00 712.50 731.25	1144 1256.00 5255.00	00104	
NURS131 NURS155B ****** NUR	120300 120300 3S	. 177	90.00 270.00 360.00	506.75 1200.00 894.18	88.50	498.31	98.33
OTA 120 OTA 130 OTA 140 ****** OTZ	121800 121800 121800 A	. 133 . 350 . 766	70.00 210.00 175.00 455.00	526.31 600.00 618.37 593.99	28.00 84.00 70.00 182.00	210.52 240.00 247.34 237.59	40.00 40.00 40.00 00.00
RESP116 RESP118 RESP1128 RESP122 RESP209 RESP232 RESP230 RESP268 ******	121000 12210000 12210000 12210000 1210000 1210000 SP SP	2 1 2 2 2 2 3 3 5	105.00 315.00 120.00 120.00 105.00 105.00	2000 2000 2000 2000 2000 2000 2000 200	1442.00 1642.00 210.00 210.00 771.50	2270 210 200 200 200 200 200 200 200 200 400 40	1 128 1001 111000 4400000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000 640000
SLPA100 SLPA200 ***** SLI	122000 122000 PA	. 267 . 534	140.00 140.00 280.00	5224 5224 5244 5344 534	56.00 48.00 104.00	209.73 179.77 194.75	40.00 34.28 37.14
******	BUSINESS A	AND PROFESSIONAL	. STUDIES	*****			

80.94

434.12

22862.50

536.30

28243.50

52.663

SKDS71-II RUN ON: (21-2004 11:11:02 REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***

DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

*** DAILY CENSUS CLASSES ***

	×								
	% OF MAX	91.11 56.671 668.000 93.750 53.333	260. 1066. 966. 000. 744. 88. 88.	94.28 80.00 87.14	67.61 86.66 68.88 72.92	88 788 708 83 70 88 70 88 70 70 70 70 70 70 70 70 70 70 70 70 70	104.00	50.00 48.00 49.00	79 600 360.09 933.11 90.00
	EARNED WSCH/FTEF	541.11 405.00 405.00 510.00 623.95 449.10 455.14	194.61 794.00 719.10 345.00 359.77 195.00	492.53 417.91 455.22	532.50 585.00 462.68 541.22	3045 20102 20102 20102 3005 3005 3005 3005 3005 3005 3005 30	520.00	375.00 360.00 367.50	364.62 318.18 194.02 198.89 197.28
1110	EARNED WSCH	126.08 33.58 81.00 102.00 87.50 385.05	2122 1922.00 1922.00 34.50 17.850 51.85	33.00 28.00 61.00	213.00 117.00 31.00 361.00	982888844 2284488844 00000000000000000000	78.00	75.00 72.00 147.00	139.65 21.000 13.000 3358.80 323.25
	MAX WSCH/FTEF	593. 713.90 750.00 750.00 7479.00 699.04	7449.06 7499.06 720.06 749.54 349.54 550.00	522.38 522.38 522.38	787.50 675.00 671.64 742.12	38990 38900 38600 3800 480 480 10 10 10 10 10 10 10 10 10 10 10 10 10	500.00	750.00 750.00 750.00	455.79 530.30 537.31 228.00 213.12 219.20
WAL STOUTES	MAX WSCH	138.38 159.25 150.00 100.00 721.97 1399.60	22 2000 2000 2000 24 2000 2000 2000 200	35.00 35.00 70.00	315.00 135.00 45.00 495.00	1044.00 1044.00 1008.000 1000.000 448.000 600.000	75.00	150.00 150.00 300.00	174.57 35.00 36.00 384.00 359.25
AIND PROFESSION	TOTAL FTEF			.067 .067 .134	. 400 . 200 . 067 . 667	99888888880 998888888888888888888888888	150		.383 .066 1.684 1.685 1.685
BUSINESS	TOP	210500 210500 210500 210500 210500 210500	051400 050200 050200 050900 050990 050990	130630	130510 130510 130510	070300 070300 070300 070300 070300 070300 070300		219900 219900 SC	1220300 1200300 1200300 120300 120300
DIVISION	SUBJECT	AOJ 100 AOJ 101 AOJ 110 AOJ 251A AOJ 251B AOJ 299 AOJ 299	BUS 086 BUS 120 BUS 121 BUS 252 BUS 256 BUS 256 BUS 257	CA 163 CA 166 ***** CA	CD 125 CD 128 CD 299 ***** CD	CSIS142 CSIS144 CSIS144 CSIS145 CSIS1745 CSIS174B CSIS174B CSIS174B CSIS274B CSIS274B		HESC205 HESC206 ****** HE	NURS110 NURS117 NURS119 NURS133 NURS135

CLASSES

GROSS SUBJECT WSC /*** ALL SH

STUDIES PROFESSIONAL AND BUSINESS SION DIVI

CENSUS SSMON OLLEGE SCH ALLYSIS HORT TERM CLASSES ONLY COLLEGE -IN : 0, 4-2004 14:11:59 : INCLUDES: GROSSMONT KDS7I-UN ON: EPORT

0000L0 0,000 mmm000000 0440 M90 MUMMMAN DWHWWW 00 0440 Ōm HOONWOOH H0000H ω mmmmm 900 $\omega \omega \omega \omega \omega \omega \omega$ 97600 9760 1000 1000 1000 R40L 805/80 722055 707 വയന 733337 0 00 2000 957 $\sigma\sigma\sigma\sigma\sigma\sigma\sigma$ 900 944444 919111 EARNED ISCH/FTEF .14 .00 .74 78017762209 0000 000 040004 2649478 8098400 20 M0000W 0040000000 0000 000 NOWNWON 6 200 04000@@NON0 0057 0120 W00700W 0WL 844N 9 L N O M O M 90 VV444WWUWUW QUHHUOOOOQA 200004 2442219 1-4m 5020 250 WON480 04 6557 222140 20 428 WSCH 000 000000000 0000 000 000000 000000 000000 00 000000 0000000000 0000 000 000000 000000 0479 475 **0**Ω**0**0**0**0**4** 4804517 $\omega = \omega \otimes \omega \otimes \omega$ 90 EARNED 2000 04020H $\omega_4 \infty$ 8712 ∞ ω 4604511 ∞ 04 ∞ 0 ω 1 100 H78 HH24 9 TEF . 42 . 00 . 66 2000 2000270 42 0707070000 000 907309H 404m50m MAX WSCH/FI WNW440W 7,80,781,441,87 000 W4040V8 \sim 2000m 2000m 000 040801 040801 0488 4760600 00 9229 4-3E34457 25 670 367 വവവ **UNMMPM NO044WN** 444 WSCH 00000 000000 0000000 0000000 00 0000000000 0000 000 2240.00 22440.00 22480.00 2200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 000 0000 000000 0000 -, -, 0477244 0000040 00 478 2640 0.004400L0 7410229 40 14 7 85 5 $\bar{\infty}$ ∞ 4217 40 FTEF 350 200 923 200 200 800 000 200 200 400 67 67 17 17 00W0V0 WL00WL0 76822 io m 000000 2H62H82 TOTAL \sim 1 9 10 2 30400 30400 30400 900 000000 000000 000 00 300 777777 77777 22(00 $\sigma \sigma$ TOP07 07 S mmm --**ненененеш** 220 HHHHHMHES(R OTA CS] [t]20 31 53 54 58 NU IESC110 IESC150 **** 10 15 20 70109 70109 70119 7008 7008 7008 96 30000 00 SUBJECT 00000 OTA 10 OTA 11 OTA 11 OTA 21 *** CSIS29 CSIS29 ***** NURS1 NURS2 NURS2 NURS2 NURS2 **** SLPA1(SLPA1) * XESSI т п п п п к п п к

GROSSMC COLLEGE SUBJECT WSCH, LYSIS ONT.V *** ALL SHORT TERM CLASSES *** SKDS7I-I RUN ON: 16-2003 08:27:12 PEDORT INCITIBES: GROSSMONT COLLEGE

IERM CLASSES	*** CENSUS CLASSES ***
KEPOKI INCLUDES: GROSSMONI COLLEGE ONLY *** ALL SHOKI IERM CLASSES **	DIVISION BUSINESS AND PROFESSIONAL STUDIES

% OF MAX	120 020 020 020 020 020 020 020 020 020	100.00 62.00 69.47 72.65	70.83	87.50 21.25 37.81	31.42 37.14 37.14 36.38	688 681. 681. 681. 681. 681. 681. 681. 6	42.83 34.28 37.128
EARNED WSCH/FTEF	4447749333939447749393939494172221222222222222222222222222222222	750.00 465.00 495.00 534.00	291.42 291.42	634.05 340.00 464.66	165.41 195.48 222.85 229.68 212.45	2860 2988.0 2988.0 209.740 12860.00 7000 75000	224.71 179.77 179.77 194.75
EARNED WSCH	1002 1002 2004 2004 2004 1004 1006 1000 1000 1000 1000 1000 1	150.00 186.00 198.00 534.00	102.00	105.00 76.50 181.50	22.00 26.00 78.00 65.00	72.00 218.70 216.00 147.00 72.00 72.00	60.00 48.00 48.00 156.00
MAX WSCH/FTEF	6084446244674 6089444624474 608694647440874 6086944124267114 6088278002118 608827800287 608827800087	750.00 750.00 712.50 735.00	411.42	724.63 1600.00 1228.87	526.31 526.31 600.00 618.37 583.98	2002444000 2003444000 2003300000 300344000 3000340000	5224 5224 5224 524 534 54 54
MAX WSCH	22 1200 2248420 1206 1206 1000 1000 1000 1000 1000 10	150.00 300.00 285.00 735.00	144.00 144.00	120.00 360.00 480.00	70.00 210.00 175.00 525.00	105.00 450.00 315.00 120.00 367.50 105.00 155.00	140.00 140.00 140.00 420.00
TOTAL FTEF		200 400 1.000	.350	.165 .225 .390		2 200 2.2550 1.2250 2505 2505 2505 2505 2505 2505 2505	.267 .267 .801
SUBJECT TOP	CVTE107 121300 CVTE110 121300 CVTE111 121300 CVTE113 121300 CVTE210 121300 CVTE212 121300 CVTE213 121300 CVTE213 121300 CVTE213 121300 CVTE213 121300 CVTE218 121300 CVTE218 121300 CVTE230 121300	S 110 130400 S 115 130400 S 120 130400 **** FS	MM 192 069900 **** MM	NURS131 120300 NURS155B 120300 ***** NURS	TA 100 121800 TA 120 121800 TA 130 121800 TA 140 121800 **** OTA	ESP116 121000 ESP118 121000 ESP122 121000 ESP235 121000 ESP250 121000 ESP268 121000	LPA100 122000 LPA110 122000 LPA205 122000 **** SLPA
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SKDS71-I RUN ON: __16-2003 08:27:12 SUBJECT WSCH /....LYSIS REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***

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DAILY CENSUS CLASSES ***

HAXX 116 117 118 117 118 118 118 118	TOTAL FTEF MAN 5500 5500 5500 5500 5500 5500 5500 5500 5500 1.067 1.634 1.644 1.
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-SKDS7I-I.
RUN ON: 0. 27-2003 12:00:20 SUBJECT WSCH ALLIYSIS
REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***

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*** CENSUS CLASSES ***	
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MAX P TOTAL FTEF MAX WSCH WSCH/FTEF EARNED WSCH WSCH/FTEF % OF MAX	15.855 8276.00 521.98 6398.50 403.56 77.31	21300	30400 .200 150.00 750.00 135.00 675.00 90.00 30400 .200 120.00 600.00 117.00 585.00 97.50 30400 .400 285.00 712.50 693.75 498.00 622.50 89.72	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20300 5.119 877.50 171.41 1080.00 210.97 123.07 20300 .225 49.50 1300.00 505.61 101.53 20300 .089 49.50 556.17 45.00 505.61 90.90 20300 1.442 420.00 291.24 360.00 249.63 85.71 20300 .225 1300.00 148.50 660.00 50.76 20300 .225 157.50 700.00 76.50 340.00 76.50 273.98 96.05	21800 .133 70.00 526.31 58.00 436.09 82.85 21800 .217 140.00 645.16 52.00 239.63 37.14 21800 .350 210.00 600.00 78.00 222.85 37.14 21800 .222 96.00 432.43 20.00 90.09 20.83 21800 .283 120.00 424.02 25.00 74.62 20.83 21800 .067 24.00 518.86 238.00 187.10 36.06		1000 .267 140.00 524.34 92.00 344.56 65.7 1000 .800 270.00 337.50 292.50 86.6 77.1 1000 .133 70.00 449.43 56.00 209.73 46.6 1000 .267 112.50 264.70 105.00 247.05 93.3 1000 2.100 150.00 147.00 46.6 1000 2.57.38 688.00 172.34 66.9
Q	S		040 040 040	21990 21990 21990 C	00000 000000 0000000000000000000000000	12180 12180 12180 12180 12180	11111111111111111111111111111111111111	2
SUBJECT TOP	SISD *****	777777777777777777777777777777777777777	$\alpha\alpha\alpha$	HHH	000000	000000	000000	SLPA100 122

SKDS7I-[
RUN ON: \(\cup \).28-2002 09:39:51 SUBJECT WSCH \(\tau \).LYSIS
REPORT INCLUDES: GROSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES ***

DIVISION -- BUSINESS AND PROFESSIONAL STUDIES

*** CENSUS CLASSES ***

A OF MAX	87.50 66.66 84.72 81.99		92.50 85.00 78.88 74.00 73.38	100.00 62.50 37.50 37.50 61.36	90.00	5800 1000 1000 1000 1000 1000 831.02	45.71 17.14 17.14 17.14 20.95	
EARNED WSCH/FTE	360.0 274.2 305.0 432.9	28 28 88 82 2 2 8 8 8 8 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	555.00 510.00 532.50 232.20 457.35	600.00 375.00 225.56 225.00 368.34	270.00	436.09 275.84 863.63 1200.00 6.00 480.00 380.00	240.60 90.22 102.85 106.00 122.35	
FARNED WSCH	126.00 96.00 183.00 7195.50	195.5 195.0 115.0	111.00 102.00 213.00 62.00 488.00	120.00 75.00 30.00 45.00 270.00	54.00 54.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32.00 12.00 36.00 110.00	
MAX WSCH/FTEF	411.42 411.42 360.00 528.07	22 C00000014400000000000000000000000000000	600.00 600.00 675.00 580.52 623.24	600.00 601.50 601.50 600.27	300.00	275.84 1200.009 1200.000 1200.000 700.000	526.31 526.31 600.00 583.37	
MAX WSCH	0000	776.0 776.0 1255.0 746.0	120.00 120.00 270.00 155.00 665.00	120.00 120.00 80.00 120.00 440.00	60.00	270.00 270.00 270.00 270.00 157.50	70.00 210.00 175.00 525.00	
TOTAI, FTEF	0000	6. 61 6. 61 6. 61 6. 61 6. 61 6. 61 6. 61 6. 61	.200 .200 .400 1.067	. 200 . 200 . 200 . 733	.200		 8289 8289 930	
TOP	18000	1.S 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1	130400 130400 130400 130400	219900 219900 219900 219900 SC	0.06690	120300 120300 1203300 1203300 120300 120300 RS	121800 121800 121800 121800	
SUBJECT	SSS*	***** C CVTE107 CVTE1110 CVTE111111111111111111111111111111111111	FS 110 FS 115 FS 299 ****	HESC110 HESC150 HESC205 HESC206 ***** HE	MM 299	NURS118 NURS120 NURS131 NURS155B NURS199 NURS255B NURS265B	OTA 100 OTA 120 OTA 130 OTA 140 ******	

GROSSMC JOLLEGE SUBJECT WSCH ALLINSTS

, Ŵ	* *	% OF MAX	79.36 31.11 100.00 76.00 40.90	1400.00	80.00 104.00 888.00 53.33 72.91 66.00 83.10	102.85 97.14 100.00	81.81 79.04 84.44 95.55 41.07	100.00 81.48 835.158 83.33 360.00 3000.00	73.91	47.50	91.56 90.00 91.56
	CENSUS CLASSES	EARNED WSCH/FTEF	400.51 237.74 1.13 285.00 278.04	14.00 14.00	44.77 779.02 659.17 240.60 525.00 496.24 471.21	537.31 507.46 522.38	268.65 622.50 570.00 645.00 307.95 513.26	270 220 2220 2225 3203 330 330 330 330 330 330 330 330 33	340.00 340.00	142.50 142.50	220.72 204.98 208.73
GGE STASSES ***	*** DAILY C	EARNED WSCH	125.00 236.25 1.13 28.50 390.88	14.00 14.00	12.00 176.00 176.00 32.00 52.50 66.00 597.50	36.00 34.00 70.00	18.00 249.00 114.00 129.00 607.50	108.00 88.00 220.00 30.00 54.00 443.00 40.00 457.00	51.00 51.00	28.50	351.60 345.60 351.60
ROSSMC JOLLE WSCH ALLYSIS L SHORT TERM C		MAX WSCH/FTEF	504.64 764.19 1.13 375.00 679.69		55.97 749.06 749.06 720.00 751.87 720.00	522.38 522.38 522.38	328.35 787.50 675.00 749.77 713.39	270.67 270.67 270.67 556.39 751.87 358.42	460.00 460.00	300.00	241.06 227.75 227.97
GUBJECT ONLY *** AL	ONAL STUDIES	MAX WSCH	157.50 759.38 1.13 37.50 955.51		15.00 2000.00 2000.00 72.00 100.00 719.00	35.00 35.00 70.00	22.00 315.00 135.00 237.38 844.38	108.00 108.00 108.00 100.00 100.00 134.00	69.00	60.00	384.00 384.00 384.00
:39:51 SMONT COLLEGE	AND PROFESSIO	TOTAL FTEF	.312 .993 1.405		268 267 133 100 100	.067 .067 .134	. 067 . 400 . 200 . 316 . 183	2003 003 003 003 003 003 003 003 003 003	.150	.200	1.592 1.686 1.684
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DIVISION

CENSUS CLASSES ***

* *	DIVISION RISINESS AND PROFESSIONAL STUDIES
TERM CLASSE	REPORT INCLUDES: GRÖSSMONT COLLEGE ONLY *** ALL SHORT TERM CLASSES

% OF MAX	66.66 44.00 87.50 100.00 87.50 77.08	71.66 71.77 71.17 71.166 71.11 71.11 882 882 882 833	95.00 107.50 80.48 114.28 91.71	60.00 93.33 76.66	100.00	100 1100 1144.200 100.000 118.100 8810.000 881.753	222.85 222.85 70.85 70.83
EARNED WSCH/FTEF	287.42 330.00 315.00 411.42 360.00 442.56	646 6446.61 3333.01 274.19 120.00 120.00 284.57 28.57	570.00 645.00 495.00 24.00 581.25	270.00 420.00 345.00	255.00	228.94 1060.00 108.00 108.00 108.00 108.00 108.00 109.00 109.00	225.56 147.46 137.14 306.30 300.35 253.73
EARNED WSCH	48.00 66.00 63.00 144.00 126.00 7212.50	86.00 3442.00 1722.00 1602.00 162.00 1618.00	1114.00 129.00 198.00 4 65.00	54.00 84.00 138.00	51.00	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30.00 32.00 48.00 68.00 17.00
MAX WSCH/FTEF	431.13 360.00 411.42 411.42 360.00 547.09	9984488990228448899022844889999999999999	600.00 600.00 615.00 21.00 633.75	450.00 450.00 450.00	255.00 255.00	2562.31 2626.31 3000.00 13080.00 234.81 7000.00 356.18	526.31 645.16 600.00 432.43 358.20
MAX WSCH	72.00 150.00 72.00 144.00 144.00 8916.00	224800.00 224800.00 22400.00 1025.00 2350.00 2350.00	120.00 120.00 246.00 51.00	90.00 90.00 180.00	51.00	25000000000000000000000000000000000000	70.00 140.00 210.00 96.00 120.00
TOTAL FTEF	.167 .200 .200 .350 .350 .400	1243 1.0087 1.0033 1.0033 1.000 1.000 1.000 1.000	200	 220 000 000	.200	3.236 3.236 2.255 2.089 1.016 7.225	
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SUBJECT	CSIS196 CSIS250 CSIS251D CSIS293 CSIS296 CSIS296 *****	CVTE100 CVTE101 CVTE103 CVTE200 CVTE201 CVTE203 CVTE203 CVTE203 CVTE203 CVTE203 CVTE203	* * * 110 * * 120 * 1	HESC110 HESC150 ***** HE	MM 299 ****** MM	NURS000 NURS118 NURS120 NURS199 NURS203 NURS203 NURS205 NURS205 NURS255A NURS265A NURS265A	OTA 100 OTA 101 OTA 110 OTA 210 OTA 220

Appendix 13

Fiscal Year FTES Analysis Program Report

Grossmont College WSCH Report

	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
ANTH	3195	3423	3423	3342	2838	3036
AOJ	6869	7895	9237	10421	12206	11000
ARBC	530	580	594	714	992	1066
ART	15470	16824	17294	17075	16571	16350
ASL	1898	1949	2132	2191	2323	3430
ASTR	2127	2514	2544	2445	2517	2382
BIO	18105	19905	20928	21990	22088	22167
вот	N/A	4304	5249	4534	4981	4471
BUS	17201	13612	14351	13582	11386	10887
CA	N/A	229	250	277	289	220
ccs	3228	3602	3470	3356	2688	2769
CD	6824	7708	7985	7603	7647	6683
CHEM	7500	8475	8828	9760	9278	9137
CHIN	N/A	N/A	295	230	275	285
COMM	12580	12495	12398	12764	13066	12533
CSIS	15580	15188	13646	11808	9595	8846
CVTE	4219	3221	4025	4385	4420	4374
DANC	3512	3797	4071	3773	3979	3618
ECON	6273	6564	6333	6561	5667	7578
ED	201	299	216	126	147	188
ENGL	27861	29775	31762	31953	32279	33840
	19017	21100		·	20785	
ES	7684		21604	20583		19109
ESL		8933	9305	8633	7703	7386
FACS	2265	N/A	N/A	N/A	N/A	N/A
FREN	2135	2111	2045	2187	1957	1786
FS	N/A	953	1032	1011	885	948
GEOG	4944	5106	4971	4575	4527	3564
GEOL	1421	1534	1490	1636	1474	1678
GERM	1787	1891	2030	2147	1882	1840
HED	3222	5216	5843	6003	5904	5223
HESC	711	1111	1086	556	566	871
HIST	11121	14172	15073	14832	14781	14050
HUM	3243	3543	3330	3228	2928	2420
ITAL	670	640	610	640	590	470
JAPN	1165	1338	1470	1444	1462	1646
LIR	N/A	N/A	N/A	N/A	36	55
MATH	38315	42000	43778	42825	43479	41258
MCOM	5834	5861	5988	5772	6195	5400
MM	N/A	105	102	N/A	48	N/A
MUS	9694	10247	10899	11232	11313	10385
NURS	8756	8413	8163	9132	7117	7048
OCEA	1113	1227	1236	1316	1338	1422
OTA	615	390	429	494	495	685
PDC	1672	1593	1187	1082	1170	1325
PDSS	497	459	382	368	353	357
PHIL	5976	6347	6177	5826	5448	4797
PHYC	2316	2250	2748	2508	2484	2298
POSC	3965	4638	4908	4731	4765	4006
PSC	990	1005	948	1029	1110	879
PSY	11202	11590	12379	12167	11504	10099
RELG	1065	1239	1245	1155	1209	990

	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
RESP	1548	1476	1556	1651	2475	3020
RUSS	521	606	900	731	758	768
SCI	1512	1389	1521	1401	1158	1155
SLPA	N/A	158	296	192	387	339
SOC	6105	6632	7473	6669	6966	6519
SPAN	12863	13697	12878	12613	12045	11191
SPDV	149	161	165	147	120	116
THTR	3826	3960	3427	3521	3799	3548

Total	331089	355446	367702	362921	356443	343512

Appendix 14

Fiscal Data: Outcomes Profile

APPENDIX 14

14. Fiscal Data: Outcomes Profile

1. Semester/Year	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall	Spring 2005	Fall 2005	Spring
							4007			2021
4. Enfollment	260	570	9/9	713	769	644	679	776	908	706
3 Farned McCurrer								2	000	05/
C. Lained WOCH/F LEF	285	265	360	329	366	339	385	357	357	246
4. Total FTES								3	3	040
5. Cost/FTES										
6. Total Cost/Fiscal Year										
7. Total Revenue										
477										
6. Other Revenue										

department is carrying this charge), and (3) the costs charged to the department/program for fulfilling a college or district function (e.g., miscellaneous reassigned COST - Cost will vary from one department/program to another for many reasons, e.g., department size. Further variation can be caused by (1) the specific step and class standing of the individual faculty members in a department/program, (2) the lack of costs associated with a chair or coordinator (i.e., another

department/program's revenue per faculty costs. ("Earned" WSCH is actual student enrollment as compared to "Max" WSCH which is determined purely by EARNED WSCH/FTEF - These numbers are taken from the Earned WSCH/FTE column in Appendix 12, Subject WSCH Analysis Report. They reflect a classroom size.) COST/FTES - These figures were taken from Appendix 13, Fiscal Year FTES Analysis by Program/TOPS Report. They will most often inversely reflect the WSCH PER FTEF ratio (i.e., a department/program with a low COST PER FTES will have a high WSCH PER FTEF). If this is not the case, then the figures indicate that an above average percentage of the direct COST of the department/program is attributed to non-faculty costs.

TOTAL REVENUE - General fund money that the department/program eams from the state for each Full Time Equivalent Student (FTES). For example, in FY01-02, that amount was \$3,500. Other revenue is non-general fund money such as fees, grants, donations, ROP, non-resident student tuition.

• GCCCD 06/07 Grossmont College Program Review • Program Data Elements

				01/02	02/03	03/04	04/05	05/06
<u>Cardiovas</u>	cular '	Techno	<u>logy (1213.00)</u>					
Course #								
	ΓE 100		CVTE 202					
	ΓΕ 100		CVTE 202 CVTE 203					
	ΓE 101		CVTE 203 CVTE 205					
	ΓΕ 102		CVTE 203 CVTE 208					
	ΓΕ 107		CVTE 210					
	ΓΕ 110		CVTE 211					
	ΓΕ 111		CVTE 212					
	ΓE 112		CVTE 213					
	ΓE 113		CVTE 215					
	ΓE 114		CVTE 218					
	Γ E 120		CVTE 230					
	E 200		CVTE 225					
CVT	TE 201		CVTE 299					
FTE	: <							
	.c Summei	-		346	347	422	414	407
_	all			1,618	1,977	2,202	2,189	2,154
	Spring			1,603	2,048	2,183	2,103	2,134
		WSCH		3,567	4,372	4,807	4,834	4,781
1		FTES		118.89	145.73	160.24	161.13	159.37
	· Olai			170.00	7 10.70		101.10	100.07
Т	ор	121300	Cardiovascular Tech - Unrestr	\$498,396	\$541,673	\$578,498	\$512,517	\$547,616
C	osts pe	er FTES		\$4,192.08	\$3,716.96	\$3,610.20	\$3,180.77	\$3,436.13
		121300	Cardiovascular Tech - Restricted	\$63,267	\$65,329	\$58,255	\$23,170	\$12,624

Appendix 15

CVT
Student
Information
Booklet

STUDENT INFORMATION BOOKLET



CARDIOVASCULAR TECHNOLOGY DEPARTMENT GROSSMONT COLLEGE

8800 Grossmont College Drive El Cajon, CA 92020-1799 grossmont.edu/healthprofessions

August, 2008

CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE STUDENT INFORMATION BOOKLET

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CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE

STUDENT INFORMATION BOOKLET

INTRODUCTION

Cardiovascular Technology is a highly technical allied health profession which provides an excellent career in terms of job availability and more importantly, the opportunity to contribute to the care of patients with cardiovascular disease. The Cardiovascular Technology Program at Grossmont College began in 1972 and has graduated approximately 1750 technologists who are employed in clinical facilities throughout the United States. The Program is designed to guide you in a sequential acquisition of knowledge and skills to ensure competency in the specialties of the field, and to assist you in finding employment as an Allied Health Professional.

This Student Information Booklet provides information relative to the structure of the Program, and the academic and professional policies of the Cardiovascular Technology Department. The booklet will serve as a reference guide throughout your course of studies. Read it carefully and do not hesitate to ask questions of the faculty.

Welcome to the Cardiovascular Technology Program! Our goal is your success! YOU HAVE MADE AN EXCELLENT CHOICE!

The CVT Faculty

·	
Student Name:	Student I.D. Number:
(Please Print)	
been provided the opportunity to clarify my qu	scular Technology Student Information Booklet and have destions. I understand that the CVT Student Information bough the CVT Program and I agree to adhere to the
Stu	ndent Signature:

Following your review of the CVT Student Information Booklet, sign and date this copy of the form and return to the CVT Office, Room 340B. The following page is a duplicate copy which should remain in the booklet.

CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE

STUDENT INFORMATION BOOKLET

INTRODUCTION

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Welcome to the Cardiovascular Technology Program! Our goal is your success! YOU HAVE MADE AN EXCELLENT CHOICE!

The CVT Faculty	
Student Name:	Student I.D. Number:
(Please Print)	
This is to certify that I have read the <i>Cardiovascular Tea</i> provided the opportunity to clarify my questions. I unde as a guide as I progress through the CVT Program and I	erstand that the CVT Student Information Booklet will serve
	Student Signature:
	Date:

This copy should remain in the booklet.

CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE

STUDENT INFORMATION BOOKLET

SECTION I - EDUCATIONAL PHILOSOPHY OF GROSSMONT COLLEGE

GROSSMONT COLLEGE VISION STATEMENT

"Educational Excellence for a Productive Citizenry."

GROSSMONT COLLEGE MISSION STATEMENT

Grossmont College will provide educational leadership through learning opportunities that anticipate, prepare for, and meet the future challenges of a complex democracy and a global society."

The founders of the Grossmont-Cuyamaca Community College District believed that a community college should provide experiences which will greatly broaden the students' educational opportunities and strengthen the society's democratic institutions. The representatives of the community directed the college to provide an education through which students may create rewarding lives, productive for themselves and for society, based on an understanding of the relationship between the past and the challenge of the present and the future.

The Grossmont-Cuyamaca Community College District accepts and is committed to the following premises:

- 1. The democratic way of life allows each individual the personal freedom and initiative consistent with his/her responsibilities to other persons.
- 2. The College recognizes the worth of the individual, and the fact that individual needs, interests and capacities vary greatly.
- 3. The maximum development of the personal, social, and intellectual qualities of each individual must be encouraged.
- 4. The maximum development and fulfillment of the individual, and the development of the community are increasingly interdependent.
- 5. All segments of the college community are encouraged to contribute and participate in the operation of the college.

An educational environment, dedicated to these philosophic premises, will produce individuals prepared for life and citizenship in a complex, viable society.

SECTION II - DESCRIPTION OF THE CARDIOVASCULAR TECHNOLOGY PROFESSION

Cardiovascular Technologist is a health care professional who, at the direction of a licensed physician, performs diagnostic tests which are used in the diagnosis, treatment, and serial follow-up of patients with cardiovascular disease. Cardiovascular Technology is a title used to describe three basic areas of expertise: Invasive Cardiology, Noninvasive Cardiology, and Vascular Technology. The role of the Cardiovascular Technologist includes, but is not limited to one of the following:

A. INVASIVE CARDIOLOGY

- 1. Assisting the physician in the performance of diagnostic and interventional cardiac catheterization and angiography procedures, and measuring cardiovascular parameters such as cardiac output, blood flow velocity, cardiovascular dynamics, cardiac electrophysiology parameters, intracardiac shunt detection, and valve flow/valve area determinations.
- 2. Preparing, calibrating and operating medical instrumentation utilized in the cardiac catheterization laboratory, open-heart surgical suite and cardiac research facilities.

Specialty selection is determined by cumulative grade-point averages in the eight courses of the Core Curriculum.

All core curriculum courses must be completed with a grade of "C" or better in order to advance from Spring

Semester to specialty training. In order to assure competence in both the cognitive and psychomotor components of lecture/lab courses, students are required to achieve passing grades in both the lecture and laboratory sections. In other words, a passing grade in the lecture portion of the course may not be used to compensate for a failing grade in lab and vice versa. Special circumstances may be considered.

- B. SEQUENCE OF COURSES All courses must be completed with a grade of "C" or better.
 - 1. Prerequisites
 - a. Chemistry 115 Fundamentals of Chemistry, 4 Units (or equivalent)
 - b. Biology 144 and 145 Anatomy & Physiology, 8 Units (or equivalent)
 - 2. Cardiovascular Technology Major Courses

First Semester, First Year

- a. CVTE 100 Physical Principles of Medicine I, 2 Units
- b. CVTE 101 Cardiovascular Physiology I, 4 Units
- c. CVTE 102 Medical Instrumentation I, 4 Units
- d. CVTE 103 Laboratory Practicum I, 2 Units

Second Semester, First Year

- a. CVTE 110 Physical Principles of Medicine II, 2 Units
- b. CVTE 111 Cardiovascular Physiology II, 4 Units
- c. CVTE 112 Medical Instrumentation II, 4 Units
- d. CVTE 113 Laboratory Practicum II, 2 Units

Summer Session

- a. CVTE 114 Cardiovascular Pharmacology, 2 Units
- b. CVTE 120 Clinical Practicum I, 3 Units

First Semester, Second Year

- a. CVTE 200 Medical Instrumentation III, 3 Units
- b. CVTE 205 Clinical Practicum II, 5 Units (Plus Courses in selected specialty as indicated below)
- c. CVTE 201 Diagnostic Procedures I Noninvasive, 4 Units OR
 - CVTE 203 Diagnostic Procedures I, Vascular Technology, 4 Units OR
 - CVTE 202 Diagnostic Procedures I, Invasive, 4 Units AND
 - CVTE 207 Invasive Medical Instrumentation I, 2 Units
 - CVTE 208 X-Ray Physics & Cardiovascular Angiography, 2 Units

Second Semester, Second Year

- a. CVTE 210 Medical Instrumentation IV, 3 Units
- b. CVTE 215 Clinical Practicum III, 5 Units

(Plus Courses in selected specialty as indicated below)

- c. CVTE 211 Diagnostic Procedures II, Noninvasive, 4 Units OR
 - CVTE 213 Diagnostic Procedures II, Vascular Technology, 4 Units
 - CVTE 212 Diagnostic Procedures II, Invasive, 4 Units AND
 - CVTE 217 Invasive Medical Instrumentation II AND

CVTE 218 – Intracardiac Electrophysiology

C. DESCRIPTION OF COURSES:

- a. CVTE 100 Physical Principles of Medicine I A course in the mathematics and physical principles of medicine, specifically applicable to the field of Cardiovascular Technology. Designed for students enrolled in the Cardiovascular Technology Program, the course includes studies in the use of mathematic formulas and physics used to evaluate the hemodynamics of the cardiovascular system.
- b. CVTE 101 Cardiovascular Physiology I A study of the anatomy, physiology, structural relationships, and pathophysiology of the human heart and vascular system. Designed for students enrolled in the Cardiovascular Technology Program, the course will concentrate on specialized terminology, cardiac anatomy, electrocardiography, and hemodynamics.
- c. CVTE 102 Medical Instrumentation I An integrated course in medical electronics and instrumentation for the cardiovascular technology student. The course will emphasize the concepts of electrical safety, the clinical application of electronic instruments and devices used in cardiovascular medicine, and the characteristics, recording, and measurement of bioelectric signals.
- d. CVTE 103 Lab Practicum and Proficiency Testing A practicum course designed to insure competency in the basic skills required in the clinical practice of cardiovascular technology. Students acquire skills in the performance of indirect blood pressure measurement, ultrasound imaging of the heart and vascular system, and calculation of specified hemodynamic parameters.
- e. CVTE 110 Physical Principle of Medicine II This course is a continuation of Cardiovascular Technology 100 with emphasis on the physical characteristics of sound, ultrasound, and Doppler Ultrasound as utilized in medical diagnostic testing. The course explores the physics involved in the formation, propagation, and reflection of sound and ultrasound, the characteristics of the various types of transducers used in echocardiography and vascular duplex scanning, and the mathematical techniques employed in the use of ultrasound to measure and calculate hemodynamic function indices.
- f. CVTE 111 Cardiovascular Physiology II A continuation of Cardiovascular Technology 101, Cardiovascular Physiology I with emphasis on electrocardiographic arrhythmia recognition, the anatomy, physiology, and pathophysiology of specified congenital heart disease, the structure and function of the arterial, venous, capillary and pulmonary circulations and the techniques for measuring and/or calculating specified hemodynamic function indices.
- g. CVTE 112 Medical Instrumentation II A continuation of basic principles in medical electronics and instrumentation, this course will emphasize the issues of medical signal transduction, conditioning and recording. The application of computer technology in analog to digital conversion, digital to analog conversion and medical data logging will also be studied. This course also surveys the types of medical electronics and instrumentation utilized in testing throughout the hospital and presents their clinical results.
- h. CVTE 113 Lab Practicum and Proficiency Testing II This course is a continuation of CVTE 103, Laboratory Practicum and Proficiency Testing I. It is designed to provide lecture and laboratory practicum necessary to develop cognitive and manipulative skills in the clinical operation of specified cardiovascular instrumentation, and in the performance of diagnostic tests.
- i. CVTE 114 Cardiovascular Pharmacology This course introduces the concepts of drug classification, pharmacokinetics, delivery systems, drug interactions and dosage. A survey of all drug categories will be presented, but emphasis will be placed on cardiac and vascular medications. Drugs administered during cardiovascular procedures is the focus of this course.
- j. CVTE 120 Clinical Practicum I This course provides an introduction to cardiovascular diagnostic testing in the clinical environment. Elements of routine patient care, the patient-technologist relationship and the professional relationship between the physician and the technologist in the clinical practice will be defined. Students are assigned to clinical experiences in local hospitals in addition to on-campus lecture and laboratory classes. This course is offered during the summer between the first and second years of the Cardiovascular Technology Program.
- k. CVTE 199 Special Studies or Projects in Cardiovascular Technology Individual study, research, or projects in the field of Cardiovascular Technology under instructor guidance. Written reports and periodic conferences required. Content and unit credit will be determined by student/instructor conferences and/or, the CVT Department. This course may be repeated for a maximum of nine units.

- l. CVTE 200 Medical Instrumentation III A course of instruction of the theory, calibration, operation and clinical application of specified diagnostic medical instrumentation. The lecture portion of the course explores the relationship of components of the medical history and physical examination to diagnostic test findings, and introduces the student to the application of diagnostic instrumentation in medical research. The laboratory section provides advanced instruction in the performance of specified diagnostic tests in Invasive, Noninvasive, and Vascular technology.
- m. CVTE 201 Diagnostic Procedures I, Noninvasive Cardiology A course of instruction in the specialized techniques of noninvasive cardiovascular testing and the evaluation of cardiovascular disease. Lectures will stress the performance and analysis of the echocardiogram, the relationship of echocardiographic findings to cardiac pathology and the measurement and calculation of specified hemodynamic parameters. Laboratory sessions are conducted in noninvasive cardiac laboratories in local hospitals with advanced instruction in M-Mode and two-dimensional echocardiography.
- n. CVTE 202 Diagnostic Procedures I, Invasive Cardiology This course provides advanced study in medical electronics and instrumentation, focusing on devices utilized in invasive cardiology. Emphasis will be placed upon advanced physiologic recording devices, blood pressure transducers, cardiac output measurement systems, fluid delivery and routing systems, as well as mechanical injector systems.
- o. CVTE 203 Diagnostic Procedures I, Vascular Technology A course of instruction in the specialized techniques of noninvasive testing of the human vascular system and the evaluation of vascular pathophysiology. Lectures will stress the performance and analysis of vascular ultrasound scanning, spectral analysis, and the interpretation of scanning and nonscanning modalities for vascular testing. Laboratory sessions are conducted in vascular laboratories in local hospitals, with instruction in techniques of duplex scanning of the cerebrovascular and lower-extremity vasculature.
- p. CVTE 205 Clinical Practicum II A laboratory course providing clinical practicum with emphasis on the calibration and operation of medical instrumentation used in Invasive, Noninvasive, and Vascular Laboratories in local hospitals and clinics with which the CVT program is affiliated. The performance of specific diagnostic tests, calculation of hemodynamic data, and professional performance in the clinical environment will be stressed.
- q. CVTE 207 A course of instruction in the theory, calibration, operation and clinical application of specified diagnostic medical instrumentation with emphasis on the relationship of findings in the medical history to diagnostic test findings, and introduces the student to the application of diagnostic instrumentation in medical research.
- r. CVTE 208 A course providing advanced study in medical electronics and instrumentation, focusing on imaging technologies utilized in invasive cardiology. Emphasis will be placed upon understanding the x-ray imaging chain, x-ray physics, cardiovascular angiographic projections, analog and digital cine angiographic techniques, fluoroscopy techniques, optical principles, intravascular ultrasound and doppler techniques. Additional emphasis is placed on data collection, analysis and interpretation of clinical patterns.
- s. CVTE 210 Medical Instrumentation IV A continuation of Cardiovascular Technology 200, Medical Instrumentation III, with emphasis on the theory, calibration, operation and clinical application of specified diagnostic testing. The lecture portion of the course provides an overview of biostatistics as applicable to medical research, continued exploration of the medical literature through reading and writing assignments, and a seminar on cardiovascular disease. The seminar is conducted by physicians and technologists from the three specialties of Cardiovascular Technology and is designed to review the current topics in medical research.
- t. CVTE 211 Diagnostic Procedures II, Noninvasive Cardiology This course is a continuation of Cardiovascular Technology 201, Diagnostic Procedures I, Noninvasive Cardiology. It is an advanced course in the techniques utilized in the diagnosis and serial follow-up of cardiovascular disease with emphasis on pulsed wave, continuous wave, and color-flow Doppler techniques; conventional and echocardiographic stress testing; and transesophageal echocardiography.
- u. CVTE 212 Diagnostic Procedures II, Invasive Cardiology This course continues the advanced study of invasive cardiac medical electronics and instrumentation. Emphasis will be placed upon advanced diagnostic and therapeutic procedures, including coronary blood flow measurements, electrophysiology procedures, pacemaker and other antiarrhythmic devices, angioplasty, atherectomy, laser, and valvuloplasty techniques. Mechanical support systems such as the intra aortic balloon pump and other ventricular assist devices will be introduced.

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- v. CVTE 213 Diagnostic Procedures II, Vascular Technology An advanced course of instruction in the specialized techniques of noninvasive testing of the human vascular system and the evaluation of vascular pathophysiology. Lectures will stress the performance and analysis of vascular ultrasound scanning, spectral analysis, and the interpretation of scanning and nonscanning modalities for vascular testing. Laboratory sessions are conducted in vascular laboratories in local hospitals, with advanced instruction in techniques of duplex scanning of the cerebrovascular, lower-extremity, and abdominal vasculature.
- w. CVTE 215 Clinical Practicum III A laboratory course providing a continuation of clinical practicum with emphasis on the acquisition and refinement of skills in the calibration and operation of medical instrumentation used in the Invasive, Noninvasive, and Vascular Laboratories in local hospitals and clinics with which the CVT Program is affiliated. The performance of specific diagnostic tests, calculation of hemodynamic data, and professional performance in the clinical environment will be stressed. Emphasis will be on consolidation of skills acquired in CVTE courses into complete diagnostic studies, including qualitative diagnostic interpretations.
- x. CVTE 217 A continuation of Cardiovascular Technology 200, Medical Instrumentation III, with emphasis on the theory, calibration, operation and clinical application of specified diagnostic testing. The lecture portion of the course provides an overview of biostatistics as applicable to medical research, continued exploration of the medical literature through reading and writing assignments, and a seminar on cardiovascular disease. The seminar is conducted by physicians and technologists from the three specialties of Cardiovascular Technology and is designed to review the current topics in medical research.
- y. CVTE 218 This course provides advanced study in medical instrumentation, introducing the topic of intracardiac electrophysiology. The content includes procedures and case studies of intracardiac electrograms, which are used to map the electrical currents within the heart. Computerized analysis of these patterns helps the cardiologist select the most appropriate treatment for chronic arrhythmia, including pacemaker technology and implantable cardioverter-defibrillators (ICD). A review of antiarrhythmic drug therapy will also be provided.
- z. CVTE 299 Selected Topics in Cardiovascular Technology Selected topics in CVT not covered by regular catalog offerings. Course content and unit credit to be determined by the Division of Business and Professional Studies in relation to community-student and/or available staff. May be offered as a seminar, lecture or lecture/lab course.

SECTION V - ACADEMIC AND PROFESSIONAL POLICIES OF GROSSMONT COLLEGE AND THE CARDIOVASCULAR TECHNOLOGY PROGRAM

A. STUDENT CODES OF CONDUCT

- 1. Grossmont College Student Code of Conduct: The primary purpose of this policy is to provide information to all students in the Grossmont-Cuyamaca Community College District about the type of conduct that is expected of each student and to set forth procedures that are fair and timely, both to the student and to the District. The California Education Code requires every community college governing board to adopt specific rules governing student behavior along with applicable penalties for violation of these rules and regulations. Grievance procedures from a student enrolled in the program should begin with a conference with the instructor concerned, followed by a meeting with the Director of the Program, and the Division Dean, in that order. The complete Student Code of Conduct is available in the office of the Dean of Student Activities. The following is a summary of the Code.
 - a. Conduct for which a student may be disciplined, if it is college related:
 - (1) Theft or non-accidental damage to college property
 - (2) Forgery, alteration, or misuse of records, documents, or identification.
 - (3) Cheating or plagiarism in connection with an academic program.
 - (4) Physical or verbal abuse or any threat of force.
 - (5) The sale or possession of controlled substances or alcoholic beverages.
 - (6) Unauthorized entry to or unauthorized use of college property.
 - (7) Engaging in lewd, indecent, or obscene behavior.
 - (8) Possession or use of explosives or deadly weapons.
 - (9) Failure to comply with directions of college officials.
 - (10) Obstruction or disruption of the educational process.
 - (11) Violation of any order of the college president or his designee or other college officials.
 - (12) Soliciting or assisting another to do any act which would subject another to penalties under this code.
 - (13) Sexual harassment. (College policy available from the CVT Office. See page 15, section I.)
 - (14) Any other cause identified as good cause by the Education Code not listed above.
 - b. Penalties which may result from violation of the Student Code of Conduct:
 - (1) Warning Verbal or written notice to the student describing behavior that may be cause for disciplinary action.
 - (2) Probation May include exclusion from participating in privileges or extra-curricular activities for a specified period of time. The imposition of disciplinary probation includes notification to the student in writing of the reason and conditions of probation.
 - (3) Short Term Suspension (Instructor) May suspend for good cause as described above from a given class for the class period or the class period AND the next class meeting. Instructor's decision is final and cannot be appealed.
 - (4) Administrative Suspension The college President or designee is authorized to suspend a student for good cause for a period not to exceed five (5) days.
 - (5) Withdrawal of Consent to Remain on Campus Effected when reasonable cause exists to believe the continued presence of the student constitutes a substantial and material threat to persons or property. (Fourteen (14) calendar-day limit.)
 - (6) Long Term Suspension Not to exceed two (2) years. Exclusion from student status. (Refer to the Code for details.)
 - (7) Exclusion Permanent denial to all campus privileges including class attendance.
 - c. Appeals Only long-term suspension and expulsion are subject to the hearing and appeal process. These procedures are on file in the office of the Dean of Student Activities.

- B. ACADEMIC INTEGRITY The Cardiovascular Technology profession demands the highest moral and ethical standards. Cheating will not be tolerated in the Program just as it will not be tolerated in clinical practice. The official Grossmont College policy on cheating is detailed in the Student Code of Conduct which is available in the office of the Associate Dean of Student Services. In accordance with this policy, the CVT Department defines cheating as any one of the following:
 - 1. Talking to another student during an exam or quiz.
 - 2. Copying (or attempting to copy) answers from another student's paper during exams or quizzes.
 - 3. Plagiarism in connection with any academic process including submitting tracings, measurements or reports which were prepared by anyone other than yourself.
 - 4. Soliciting or assisting another student to do any act which would violate this policy.

Instructors have the authority to suspend any student suspected of cheating for the class meeting in which the incident occurs and one additional class meeting. Following a review of the incident, the college policy prevails and the student may be denied continued and/or future access to the Program. Refer to the Student Code of Conduct for additional information on this policy.

- C. DRESS CODE FOR CLINICAL EXPERIENCE CLASSES All Grossmont College CVT students are required to adhere to the following dress code when assigned to clinical labs. It is the student's responsibility to present a professional image so as to reflect well on themselves, the clinical site and the CVT Program.
 - 1. All students will be neat and professional in appearance.
 - 2. All students will wear a clean, neatly-pressed, white lab coat. The lab coat must have the Grossmont College student patch sewn to the left sleeve and a picture ID card, which is available from the A.S.G.C., on the left pocket, giving the student's name and identification as a Grossmont College CVT student.
 - 3. Hair will be neat and out of the way. Longer hair must be fastened behind for reasons of cleanliness.
 - 4. Shoes must be closed and soft-soled. Sandals are not acceptable.
 - 5. Jewelry and makeup must be limited and understated. One set of simple, inconspicuous stud or post earrings are acceptable. No dangling earrings or hoops. No ornate rings, multiple chain necklaces or bracelets. Piercing of any other visible body part except ears in not acceptable and <u>must be removed for clinical experience</u>.
 - 6. The Center for Disease Control has released a recommendation regarding artificial nails in the clinical setting. Artificial nails are not allowed in the high-risk areas such as intensive care or coronary care units, operating rooms or the cardiac catheterization laboratory. To comply with this recommendation and policies of our clinical sites, artificial nails are not allowed in any clinical area.
 - 7. The formality of dress will vary at different clinical sites. The student is responsible for knowing and conforming to the expected dress code at all times. Regardless of the accepted practice at the clinical site, students are never to wear Levi's, blue jeans, T-shirts, boots, skirts or dresses shorter than knee length or other casual attire which exposes the midriff. Students are not to wear surgical scrub attire unless specifically instructed to do so by the instructor or clinical supervisor.
 - 8. The program has arranged with an apparel company for students to purchase embroidered scrub suits for a reasonable price. The scrub top is embroidered with the program name and the college. Order forms will be available from the CVT office.

FAILURE TO MEET THE REQUIREMENTS OF THIS DRESS CODE WILL RESULT IN THE STUDENT BEING SENT HOME AND RECORDED AS ABSENT.

D. USE OF PROGRAMMABLE CALCULATORS/CELLULAR PHONES - The Cardiovascular Technology Program does not allow the use of programmable electronic calculators in the first year of the program. The instructors will specify acceptable types of calculators for use in the program. The use of

- cellular phones is disruptive to class. Phones must be turned off or silenced when brought to the classroom. Text messaging is never allowed during class or exams.
- E. PROFESSIONAL CONDUCT AT CLINICAL SITES Improper student conduct and/or failure to respond to supervision in the clinical setting can result in patient injury, personal and institutional civil liability, loss of the use of clinical facilities, and potential loss of program accreditation. Therefore, the instructor or clinical supervisor has the authority to take immediate corrective action, including immediate dismissal from the clinical area if unsafe practices are observed.

Students are expected to act as professionals with the utmost respect for patient confidentiality. This means that discussion of patients' problems in the public places such as cafeterias and elevators, and any discussion of a patient's problems with fellow students are inappropriate. Students may be required to sign a confidentiality form.

- F. SUBSTANCE ABUSE DRUGS AND ALCOHOLIC BEVERAGES The faculty of the CVT Program supports the policies related to drug or alcohol abuse as defined by the Grossmont College Board of Trustees as follows:
 - 1. The Board recognizes that drug and alcohol abuse is an occupational hazard of medicine. It therefore recommends that students be apprised, at an early point in their instruction, that abuse of drugs, alcoholic beverages or other chemicals, can prevent them from continuing in the program and lead to criminal and civil censure. Students who exhibit this behavior will be referred to appropriate support services and may be dismissed from the Program.
 - 2. Any student who uses, sells, or distributes alcoholic beverages, narcotics, or hallucinogenic drugs or substances on any site of the Grossmont Community College district or affiliated clinical sites will be suspended immediately by the appropriate President for up to five days. In addition, action for dismissal from the college may be recommended to the Governing Board.
 - 3. It is the policy of the Board to prohibit the possession or drinking of alcoholic or malt beverages at college functions on campus, at college-sponsored events or official functions of college organizations in accordance with the California Administrative Code, Section 24.

G. ATTENDANCE POLICY

- CVT Classroom Attendance Policy The CVT Department adheres to the Grossmont College policy
 on attendance which states that the number of absences per semester cannot exceed the number of
 times a given class meets per week. Physician-verified illness or bonafide emergencies will be
 considered, provided the student is able to meet the class objectives. Students exceeding the
 maximum permissible absences in a particular course may not receive credit and may be dropped via
 the excessive absence process.
- 2. CVT Clinical Attendance Policy The Cardiovascular Technology Program requires a major commitment of time and energy. Due to the variety of experiences and scheduling required, it is virtually impossible to be enrolled in the Program without reliable transportation. If it is necessary for the student to work while enrolled in the Program, it is expected that arrangements be made to insure no interference with assigned clinical time. It is also recommended that work hours not be scheduled immediately prior to attendance in clinical laboratory. Students in the CVT Program have specific activities for which they must assume responsibility and maintain a certain degree of flexibility. If case loads are particularly light, the clinical schedule may be altered. Advance notice of changes in scheduling will be made in the most timely fashion possible. Attendance at clinical experience classes follow the same policy as for classroom work. (i.e. A student must not miss more clinical time in one semester than is assigned for one week.) Make-up time in clinical laboratories may or MAY NOT be available, in which case the student's grade will be affected. Students should make every effort to fulfill assigned clinical hours.
- 3. Extended Sick Leave or Pregnancy Leave
 - a. Antepartum Physician verification and clearance to continue in the program must be provided as soon as pregnancy is determined. Physician clearance to continue in the Program must be provided monthly following determination. The student may remain active in the program until delivery provided course objectives are met and the attendance record is satisfactory. Early notification and continued physician clearance is mandatory so that clinical experiences may be modified for safety of the mother and fetus.
 - b. Postpartum The student may return to the program no sooner than one week following delivery.

A physician's clearance to continue is required.

4. Extended Illness and/or Post Operative - A physician's clearance is required and restrictions stipulated by the physician will be honored provided progress in the program continues. The maximum absence policy of the College will apply unless judged inappropriate by faculty review on a case-by-case basis.

H. GRADES & RECORDS

- 1. Grades will be assigned and processed in accordance with current College policy. All courses in the major and prerequisites must be completed with a grade of "C" or better. Grades and supporting documents required by the College are filed in the Admissions and Records Office at the end of the semester. The Grossmont College Catalog states: "In the absence of mistake, fraud, incompetency or bad faith, the determination of the students grades by the instructor shall be final once they have been filed. Questions regarding final grades should be brought to the attention of the Program Director and Director of Admissions and Records during the semester immediately following."
- 2. In order to assure competence in both the cognitive and psychomotor components of lecture/lab courses, students are required to achieve passing grades in both the lecture and laboratory sections in all courses. In other words, a passing grade in the lecture portion of the course may not be used to compensate for a failing grade in lab and vice versa.

3. Incomplete Grades

An Incomplete ("I") grade may be awarded at the discretion of the instructor when all the following conditions exists:

- The student has contacted the instructor of his/her course and both have agreed to the provisions established in the *Incomplete Grade Contract*.
- The student has had an unforeseen emergency that prevents him/her from completing the remaining coursework. Evidence to verify the emergency may be required.
- The student has completed a minimum of 50% of the required coursework, as specified in the
 course syllabus, with regular attendance, and there is still the possibility of earning a passing
 grade.

The student is responsible for acknowledging the following:

- The student is responsible for completing the coursework as outlined in the *Incomplete Grade Contract*; upon satisfactory completion, the instructor will replace the "I" with a grade.
- The "I" is not used in calculating GPA or units.
- The "I" cannot be cleared by re-enrolling in the course.
- The grade earned on the portion of work completed for the course (as specified in the course syllabus) must be used to calculate the final grade for the course.
- A signed *Incomplete Grade Contract*, in which the student agrees to complete remaining coursework, must be filed by the instructor. In the case of an extreme emergency where the student is unable to meet with the instructor, the instructor may initiate and file the *Incomplete Grade Contract*, sending a copy to the student for signature. The contract is invalid without both instructor and student signatures. Without the student's signature, the "I" will revert to the default grade at the end of the following semester.
- Class time and/or assignments outlined in the *Incomplete Grade Contract* must be completed by the end of the 16-week semester following the date on the contract. If not, the "I" will revert to the default grade assigned on the *Incomplete Grade Contract*.
- An extension of time for removal of the "I" must be petitioned by the student. The petition must include evidence of approval from the instructor.
- In the event that the original instructor of record on the *Incomplete Grade Contract* is unavailable, the student must see the appropriate department chair or dean for alternate arrangements.

- I. ACADEMIC JEOPARDY CLINICAL INCIDENT REPORT DISMISSAL EXIT INTERVIEW -READMISSION POLICIES
 - 1. Notification of Academic Jeopardy is a formal process by which a student is notified of failure to meet expected academic standards. Initiation of the process occurs when the faculty feels that academic failure is likely unless corrective measures are developed. The process includes preparation of a *Student Assessment Form* which details the areas of concern, the recommended course of action, and the timeline for meeting appropriate standards. The form is signed by the student, the instructor and Program Director. The student will be provided a copy of the assessment form and a copy will be placed in the student's file.

Tutoring in general education and prerequisite science courses is available through the Learning Resource Center. Tutoring in CVT courses is available from the individual instructors within the program. The student is responsible for identifying specific areas of educational need and contacting the instructor for assistance. The student and the appropriate faculty will define specific learning objectives and develop a plan within a specified time frame to meet the stated objectives of the course.

- 2. Clinical Incident Policy An alert, professional attitude is absolutely essential at all times in the clinical setting. A clinical incident is defined as a situation in which a student places a patient in actual or potential danger, is unprepared to participate in clinical activities, or demonstrates unprofessional conduct. A Student Performance Assessment will be prepared with any occurrence as noted above in order to:
 - (a) Identify those students who need assistance in performing the CVT Competencies for any given semester.
 - (b) Identify specific problems of unprofessional behavior.
 - (c) Determine remedial measures that will assist the student in successfully completing the program. Clinical Incident Reports are retained in the student's record until graduation, at which time they are destroyed.
- Dismissal A student is subject to dismissal from the CVT Program based on, but not limited to, the following:
 - a. Academic Failure
 - b. Excessive absence or tardiness as defined in this booklet
 - c. Violation of the Student Codes of Conduct
 - d. Dangerous or unprofessional conduct in the clinical setting as defined in the Clinical Incident Policy
 - e. Refusal or inability to follow directions which leads to acts which endanger others in the laboratory classroom, or clinical setting
 - f. Cheating (Refer to CVT Academic Standards and Policies section in this booklet)
- 4. Exit Interview Policy Should it become necessary for a student to leave the program for any reason, an exit interview will be conducted by the Program Director and an *Exit Interview Form* will be completed. This form will become part of the student's record and will be reviewed by the faculty in considering readmission should the student desire to continue at a later date.
- 5. Readmission Policy Readmission to the CVT Program is not automatic nor guaranteed and will be considered by the CVT faculty on an individual basis. Students who leave the Program in good academic and clinical standing will be readmitted to the Program upon recommendation of the CVT full time faculty. Students who leave the program due to academic failure will be considered for readmission for one time only. Special consideration may be given in extraordinary circumstances.
 - a. Procedure for re-entry for students dismissed due to Academic Failure
 - (1) Submit a Program application to the CVT Office by May 1st.
 - (2) If requested, meet with the CVT faculty in order to present strategies developed and implemented to enhance chances for success.
 - (3) If the application is approved, the applicant will be placed at the bottom of the waiting list for the next convening class.

- (4) The CVT Program is an integrated curriculum in which the content of each course interacts with and depends on the content of the other courses. Therefore, if the student reenters the Program either in the Core Curriculum or second year specialty, enrollment is required in ALL concurrent courses, whether previously passed or not. (A petition process is required to repeat courses previously completed with a satisfactory grade.)
- b. Dismissal due to Cheating, Unprofessional Conduct, or Dangerous Conduct The CVT Program prepares students to work in medical-diagnostic specialties. The nature of the work requires that students use sound judgment and follow directions issued by physicians, instructors and/or clinical supervisors in order to prevent patient injury. Since this work requires the highest ethical and professional standards, students dismissed for reasons of cheating, unprofessional conduct, or dangerous conduct will not be considered for readmission.

J. ADVANCED PLACEMENT

An individual evaluation will be conducted for students wishing to transfer into the program from other schools, or to challenge the core curriculum for advanced placement into the second year of the program. A successful challenge requires a passing grade on the final exams for the eight (8) courses in the core curriculum. Placement will be based on space available, with students who are fully-matriculated in the program having first priority.

K. HEALTH & SAFETY

- 1. Physical/Dental Exam All students are required to have a physical and dental examination prior to entry into the program. Participation in some components of the program requires physical exercise such as lifting when assisting patients from beds to wheelchairs or gurneys, gurneys to beds, and in some cases, pushing heavy equipment from one location to another. Persons prone to disorders such as tendonitis, carpal tunnel syndrome, or chronic neck/back pain which may impede performance of clinical tasks should obtain advice from a faculty member of the CVT Program and their physician prior to entering the field.
- 2. Immunizations A major component of the CVT curriculum involves clinical experience in local hospitals and clinics. In order to protect both students and patients, documentation of specified immunizations or seropositivity must be provided on entry to the program. Documentation must also be submitted which verifies an annual, negative screening test for tuberculosis.
- 3. CPR Training Requirements Students are required to have a Basic Life Support/CPR Certification prior to the beginning of CVTE 120 Clinical Practicum, I during the summer session between the first and second year of the Program.
- 4. Medical Malpractice Insurance Medical Malpractice Insurance is required prior to beginning clinical training. Insurance forms are supplied by the Program and the cost is approximately \$20.00 per year.
- 5. Personal Hygiene The structure of many of the labs in the program requires students to act as patient-models for performance of diagnostic tests by your peers. It is essential that all students maintain high standards in their personal hygiene and grooming and that each student have a pair of shorts available for segmental blood pressure measurements. Female students are also required to have a top suitable to wear during the performance of electrocardiograms and echocardiograms.
- 6. Splash Goggles Splash goggles are required to be available during assignment to clinical facilities. Splash goggles may be purchased at the College Bookstore.
- 7. Student Injury -The following procedures must be followed should injury occur while on campus or in approved clinical sites as part of the instructional program. When a Health Professions student is injured on campus in a non-clinical work experience related accident or illness, that student would seek treatment and services as any other student. You may be treated by your own medical services and insurance and/or go to the campus Health Services office and receive treatment, insurance services and make an accident report.

Any bloodborne pathogen exposure incident is serious and needs an immediate response and medical evaluation.

If you are injured at a clinical site while doing your clinical experience, you are covered for workers compensation by Grossmont-Cuyamaca Community College District and eligible for treatment at a Sharp Occupational Health Services facility.

- a. Notify your clinical site supervisor (may be the person you report to at the clinical site, or who immediately supervises you.)
- b. As soon as possible, but within 24 hours, notify your College clinical supervisor (instructor, department head or, if not immediately available, the Health Professions Office at 619-533-7301, or Risk Management at 619-644-7710. Ask for a referral and the paperwork for reporting the incident.
- c. Some paperwork from Grossmont College will need to be completed. If convenient, do this before going for medical treatment. If it is medically urgent or more convenient to seek medical evaluation and treatment first, you can receive a referral by phone after you decide which facility you will go to and complete steps 1 and 2 above.
- d. Proceed to one of the Occupational Health Services clinics. Locations are available from the CVT Office or from Risk Management.
- e. The Occupational Health clinic will begin medical treatment. If you had a bloodborne pathogen exposure incident, you will be given counseling and a schedule for appropriate testing, treatment and follow up. Return visits may be necessary. It is important to follow through on the recommended course of action.
- f. Within 24 hours pick up from your College clinical supervisor, the Health Professions office, or the Rick Management office (In the District Annex building in parking lot #4) the forms and instruction you will need. On the *Injury Illness/Accident Report* form (rev.2/05), on the top right, check the "Student Worker" checkbox and complete the form. On the *Workers Compensation DWC-1* form complete items 1-8. These forms and instructions are also available on the www.gcccd.edu website under departments/Risk Management & Benefits/Form/Workers' Compensation Forms (on the bottom right window).
- g. Return the forms to your College clinical supervisor, the Health Professions office, or the Risk Management office along with copies of any forms received from Sharp.
- 8. Radiation Exposure It is not the intent of the program that students be trained to expose patients to ionizing radiation. Students will be protected against and monitored for exposure to ionizing radiation during their clinical rotations in cardiac catheterization or cardiovascular nuclear studies laboratories.
- L. SEXUAL HARASSMENT It is the policy of the Grossmont-Cuyamaca Community College District to provide employees and students with a working and educational environment free of discrimination. Sexual harassment is discrimination. It is a form of misconduct that can decrease work productivity, undermine the integrity of employee-student relationships, decrease morale, and cause severe emotional stress and physical damage. Such conduct may result in disciplinary action up to and including dismissal or expulsion from classes, depending on the nature of the harassment. According to state and federal law, sexual harassment may be defined as "unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature".

If you believe that you are a victim of sexual harassment, phone or visit the District Campus Police located in the east portion of parking lot 5, Building 600A, Phone 619-644-7654.

- M. HEALTH PROFESSIONS COMPUTER CENTER POLICY Computer lab usage by students in the CVT Program consists of specific assignments by individual instructors, and open lab hours during which students may work on Computer Aided Instruction and/or general word processing. Hardware/software maintenance and legal/licensure issues necessitate the following guidelines:
 - 1. Students are prohibited from entering any directory or subdirectory.
 - 2. Students are prohibited from editing or copying any program, directory, or subdirectory.
 - 3. Students are prohibited from adding personal software to the computer systems.
 - Students are prohibited from altering the hardware or software configuration of the computers in the lab
 - 5. All students are required to review and sign the Grossmont –Cuyamaca Community College
 District Computer Security and Use Statement during the first week of the program. The form will be provided by the program.

N. GRADUATION REQUIREMENTS

- Students pursuing the Associate in Science Degree should make an appointment with the Grossmont College Counseling Center to develop a program of studies as appropriate to reach your goal. This should be accomplished early in your program of studies to insure completion of required courses in general education sections. Students requesting a modification of major via courses taken at other colleges/universities must provide a completed request form and a course outline/description of the substituted course.
 - 2. A Certificate of Achievement will be awarded to graduates who complete 3 Units of English (110 or 120) and 3 units of Communications (120 or 122) in addition to the major requirement.
- 3. NOTE: Students in the Invasive Track of the program are required to obtain Advanced Cardiac Life Support (ACLS) certification, and sit for the national registry examination administered by Cardiovascular Credentialing International (CCI) prior to graduation. Fees for ACLS certification and the registry exam are required of the student.

SECTION VI - STUDENT SERVICES

A. CARDIOVASCULAR TECHNOLOGY OFFICE - The Cardiovascular Technology Office is located in room 340B (Health Professions). Phone: 644-7302. The CVT classrooms and laboratories are located in the Science & Technology Building (Bldg. 300N). To reach members of the faculty, dial the following numbers:

Andy Biondo - 644-7895 Rick Kirby - 644-7302 Helen Potter - 644-7352 Don Ridgway - 644-7317 Dan Sullivan - 644-7451

- B. CARDIOVASCULAR TECHNOLOGY LABORATORY Located in Room 329A, the CVT Laboratory maintains a comprehensive library of video tapes, and tape/slide presentations. These materials are available from the laboratory technician for check-out to all CVT students. The phone number for the health professions lab is 644-7316.
- C. LEARNING RESOURCES CENTER The Learning Resources Center (LRC) is the large building in the center of the campus located directly behind the administration complex. It is organized into the Library and the Tech Mall. The library is well supplied with a variety of reference books, periodicals and medical journals for student use and is continually updated. The telephone number for the library is 644-7355.
- D. TUTORING CENTER The tutoring center is located in the Tech Mall. The center provides tutoring in designated subject areas. The telephone number is 644-7387.
- E. DISABLED STUDENT SERVICES The Disabled Services department provides services to students

with various disabilities including learning disability, speech impairment, hearing or visual impaired and provides transportation for students with orthopedic problems. The Center provides diagnostic testing and specific tutoring for students with learning difficulties. The telephone number is 644-7112.

- F. HEALTH & SAFETY OFFICE Health counseling, the interpretation of health problems, health guidance, and referral is available through the college Health & Safety Officer. Services including physical examinations, immunizations & TB testing, first aid, vision screening, hearing screening and optometry are available upon request. On-campus and school related activities insurance coverage for accidents is handled through this office. Coverage is at the Workers' Compensation rate. Any accident occurring to students on campus or in clinical areas should be reported to the Health & Safety office immediately. The phone number is 644-7208.
- G. COUNSELING CENTER (Phone Number: 644-7210) The Counseling Center is available to assist students with academic planning, career exploration, crisis situations, personal adjustment, interpersonal relations, marriage and family concerns, divorce adjustment and stress reduction. Personal development classes for college credit focusing on careers and study skills are available.
 - The Counseling Center is staffed by educationally qualified, professional, licensed and credentialed counselors. Appointments may be made by calling the Center at 644-7208, Monday through Thursday, 8:00 AM 7:30 PM, and Friday from 8:00 AM 4:30 PM. All contacts are confidential.
- H. FINANCIAL AID Students who need financial assistance to remain in school may apply for aid in the form of grants, scholarships, loans and the college work study program. Information and applications for financial aid may be obtained from the Financial Aid Office in Room 108. Students who are members of the Associated Students of Grossmont College (ASGC) are also eligible for short-term, interest-free book loans. Book loan applications are available in the Student Government Office. Phone number 644-7129.
- I. PLACEMENT CENTER The Placement Office coordinates campus-wide full-time and part-time placement for Grossmont College students. Work experience positions which will enhance the student's course of instruction are also offered. Part-time job placement serves students seeking jobs to provide income while completing their education. The Placement Office is located in the Counseling Center.
 - Graduates of the CVT program have experienced excellent placement to date. Future graduates will have no difficulty in finding employment in the field. A willingness to relocate from the San Diego area may be necessary.
- J. VETERANS AFFAIRS OFFICE The Veterans Affairs Office serves to assist veterans in qualifying, applying for and maintaining VA educational benefits. Phone number 644-7165.
- K. MINORITY AFFAIRS Recruitment and support systems are available for African American, Native American, Latino American, and other ethnic minorities. Detailed information on these services is available through the Student Activities Office, Phone Number 644-7600.
- L. STUDENT ACTIVITIES (Phone Number 644-7265) The Dean of Student Activities provides administrative assistance to the ASGC, clubs, food services, athletics, bookstore, campus police and parking operations. Questions pertaining to these functions can be directed to the Dean of Student Activities office in the Student Center.
- M. ASSOCIATED STUDENTS OF GROSSMONT COLLEGE (ASGC) The Associated Students of Grossmont College (ASGC) supports activities such as clubs, dances, concerts, rallies, speakers, films and other cultural events in addition to providing discounts in local stores, legal and medical services to ASGC members, and a ticket office on campus with tickets to entertainment events throughout the San Diego area. The ASGC offices are located in the Student Activities section of the Student Center and all CVT students are encouraged to support their activities. They in turn provide support for our department through donations of equipment and services. Phone number 644-7604.
- N. CARDIOVASCULAR CLUB The Cardiovascular Club of Grossmont College is chartered by the ASGC and is organized to promote student interaction, enhance visibility of the program, and conduct fundraising activities to promote the educational program. Each CVT class elects a slate of officers during the first semester of the program who will provide leadership and coordination of the club's activities.

VII. STANDARD PHYSICAL REQUIREMENTS FOR CLINICAL TRAINING

The following are the Standard Physical Requirements for working in the clinical environment as a student in the Cardiovascular Technology Program at Grossmont College. These requirements were established as a result of a survey of clinical affiliates that provide training to our students, and should be used as a guide to you and your physician.

- A. Lift While Standing Light to Moderate Less than 50 pounds Frequent
- B. Lift While Sitting Light Under 25 pounds Frequent
- C. Lift With Assistance Heavy Over 50 pounds (Patient Transfer, etc.) Occasionally/Frequently
- D. Pushing Heavy Over 50 pounds Frequent
- E. Pulling Heavy Over 50 pounds Frequent
- F. Reaching (Full Extension Elbow Flexion) At shoulder level Occasional/Frequent
- G. Reaching (Full Extension Elbow Flexion) Above shoulder level Occasional/Frequent
- H. Standing for extended periods Frequent
- I. Standing for extended periods with radiation protective device (CVT Invasive Track) Frequent
- J. Sitting for prolonged periods Frequent
- K. Walking (Moderate distances within clinical environment) Frequent
- L. Carrying Light to Moderate Less than 50 pounds Occasional
- M. Bending Occasional
- N. Stooping Occasional
- O. Kneeling Occasional
- P. Turning Frequent
- Q. Hand Manipulation (Hand controls, simple grasping, power grasping, fine manipulation) Frequently
- R. Operate Foot Controls Frequent
- S. Visual Requirements Ability to observe alarms, indicators and patient physical appearance. Ability to recognize and respond to safety issues.
- T. Auditory Requirements Ability to hear and understand orders from a physician or supervising technologist. Ability to hear safety alarms and respond appropriately.

SECTION VIII - CLINICAL FACILITIES/AFFILIATIONS

The Cardiovascular Technology Program at Grossmont College maintains clinical affiliations with the following hospitals/clinics in the San Diego area. Students are responsible for their own transportation to and from clinical sites.

Clinical Site Miles from Co	llege	Clinical Site	Miles from College
ALVARADO COMMUNITY HOSPITAL 6655 Alvarado Road San Diego, CA 92120	3	SAN DIEGO CARDIAC CENT 8010 Frost Street San Diego, CA 92123	ER 12
DIAGNOSTIC IMAGING SYSTEMS, INC. 7020 Friars Road San Diego, CA 92123	10	SCRIPPS CLINIC & RESEARCH FOUNDATION 10666 North Torey Pines Road La Jolla, CA 92037	25
CHILDREN'S HOSPITAL 8001 Frost Street San Diego, CA 92123	12	SCRIPPS HOSPITAL - CHULA 435 H. Street Chula Vista, CA 92010	A VISTA 15
KAISER-PERMANENTE MEDICAL CENTER 4647 Zion Avenue San Diego, CA 92120	. 4	SCRIPPS HOSPITAL - ENCIN P.O. Box 230817 Encinitas, CA 92023	ITAS 30
SCRIPPS - MERCY HOSPITAL & MEDICAL CENTER 4077 Fifth Avenue San Diego, CA 92103	10	SCRIPPS MEMORIAL HOSPIT 9888 Genesee Avenue La Jolla, CA 92037	ΓAL 22
NAVAL MEDICAL CENTER, SAN DIEGO 34800 Bob Wilson Drive San Diego, CA 92134-5000	15	SHARP CABRILLO HOSPITA 3475 Kenyon Street San Diego, CA 92110	L 28
PARADISE VALLEY HOSPITAL 2400 E. 4th Street National City, CA 92050	18	SHARP - GROSSMONT HOSP 5555 Grossmont Center Drive La Mesa, CA 92041	PITAL 3
PALOMAR MEMORIAL HOSPITAL 559 East Grand Avenue Escondido, CA 92025	33	SHARP MEMORIAL HOSPITA 7901 Frost Street San Diego, CA 92123	AL 12
POMERADO HOSPITAL 15615 Pomerado Road Poway, CA 92064	25	TRI-CITY MEDICAL CENTER 4002 Vista Way Oceanside, CA 92056	R 40
		UCSD MEDICAL CENTER, HI 200 West Arbor San Diego, CA 92103	ILLCREST 12
		VETERANS' HOSPITAL 3350 La Jolla Village Drive La Jolla, CA 92037	20

APPENDIX 1

CARDIOVASCULAR TECHNOLOGY DEPARTMENT GROSSMONT COLLEGE

COMPETENCIES FOR GRADUATION

CARDIOVASCULAR TECHNOLOGY GROSSMONT COLLEGE



COMPETENCIES FOR GRADUATION

May, 2008

Appendix 16

CVT Program Brochure

Admission to the Program

To apply for admission to the Cardiovascular Technology Program the following steps must be taken:

- Schedule an appointment with the Counseling Office, if necessary, to discuss the program or general education requirements.
- Complete an application for admission to the program and submit to the CVT Office. Applications are available in the Health Professions Office (Room 340B), the Counseling Center or can be downloaded and printed from our web-page. To receive one by mail, call or mail a request to the Cardiovascular Technology Department.
- Submit official transcripts of any previous high school and college credit directly to the Cardiovascular Technology Department, and a copy of all college transcripts to the Admissions and Records Office.
- 4. Complete all admission requirements to Grossmont College.
- 5. Upon acceptance into the CVT Program, the student must submit a satisfactory physical and dental exam and evidence of essential immunizations. Forms are provided by the CVT Office.
- 6. Prior to entering clinical training at the end of the second semester the student must have a current background check and drug screening, CPR card, lab coat, and current malpractice insurance. Application forms for malpractice insurance are supplied by the program. The cost of the insurance is appoximately \$20.00.

1000

Grossmont College is a part of the California Community College system and requires an enrollment fee for all students payable at the time of registration. All students are required to pay a health fee. A parking fee will be charged to all students using the parking facilities. A Student Benefit Card is optional. Students are required to purchase their own textbooks and supplies including a lab coat and name tag at an approximate cost of \$1,000.

Structure of the Program

The Cardiovascular Technology curriculum covers four regular semesters and requires a six-week summer session between the first and second years of study. The first year of the program is composed of on-campus lecture and laboratory classes, offered primarily in the morning and early afternoon. The second year of the program is a series of on-campus lecture and laboratory courses combined with clinical experience in local hospitals. Students must provide their own transportation to the clinical sites. Some late afternoon and evening classes are required. See the Official Class Schedule for detailed information regarding scheduling.

Accreditation

Grossmont College is accredited by the Western Association of Schools and Colleges, and is a member of the American Association of Community Colleges, the Community College League of California, and the National Commission on Accrediting. Appropriate courses are fully accepted on transfer by the University of California, the California State College system, and by private four-year colleges and universities.

The Cardiovascular Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Graduates are eligible to sit for national registry exams.

For additional information, contact:

GROSSMONT COLLEGE

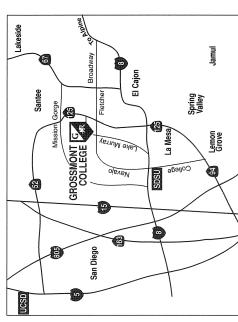
Cardiovascular Technology Department

8800 Grossmont College Dr.

El Cajon, CA 92020-1799

619-644-7302

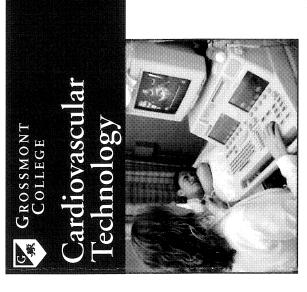
Fax: 619-644-7961 joann.faulise@gcccd.edu http://www.grossmont.edu/cardiovascular_technology



GOVERNING BOARD MEMBERS: Rick Alexander, Greg Barr, Timothy L.
Caruthers, D.C., Bill Garrett, Deanna Weeks
Student Members: Crystal Bernier-Sudano, Audrey Causton

CHANCELLOR: Ometo Starez, Ph.D.
PRESIDENT: Sunita V. Cooke, Ph.D.

The Grossmont-Cuyamaca Community College District does not discriminate on the basis of race, religion, creed, color, nationality, gender, age, or handicap in admission or access to, treatment of, or employment in, its programs and activities.



Cardiac Ultrasound (Echocardiography) Diagnostic Vascular Ultrasound Cardiac Catheterization









The Cardiovascular Technology Program at Grossmont College

The cardiovascular technologist is the link between the physician and the patient by way of the sophisticated medical instrumentation currently utilized in the diagnosis and treatment of cardiovascular disease.

The Cardiovascular Technology Program at Grossmont College is a two-year course of study leading to an Associate in Science Degree, or Certificate of Achievement as elected by the student. Graduates enter the health care profession as Cardiovascular Technologists.

Students are educated in the theoretical concepts and clinical application of a broad spectrum of courses and techniques, including Cardiovascular Anatomy and Physiology, Physical Principles of Medicine, Medical Instrumentation/Electronics, and Clinical Practicum.

The program begins with a one-year core curriculum of courses followed by one year of concentrated study in one of three specialties within the field.

1. Invasive Cardiovascular Technology

Invasive cardiovascular technologists work in cardiac catheterization laboratories, operating rooms and surgical research labs. They assist the cardiologist or cardiac surgeon in performing intracardiac pressure measurements, oximetry determination, cineangio-cardiography, and the measurement and calculation of cardiac function indices. These data are then used by the physician in confirming diagnosis and designing treatment.

2. Noninvasive Cardiovascular Technology

Noninvasive cardiovascular technologists perform 2-Dimensional and Doppler echocardiograms, electrocardiograms, exercise stress tests, and ambulatory ECG monitoring. These tests are noninvasive examinations and provide information to the physician on both the anatomic structure and function of the heart.

Vascular Technology

Vascular technologists use ultrasound and other noninvasive techniques to diagnose disease of the vascular system. Tests include ultrasonic imaging and flow studies of the arteries and veins to detect problems in patients who are at risk for stroke, arterial occlusion, or venous disease.

Cardiovascular Technology is a challenging and rewarding career which demands individual initiative, clinical judgment, and a commitment to ongoing professional growth in the rapidly evolving field of cardiovascular diagnosis and treatment.

Employment Opportunities

Graduates of the Cardiovascular Technology Program at Grossmont College are actively recruited by hospitals and clinics in the San Diego area and throughout the country. Employment opportunities are excellent and current trends indicate that demand exceeds supply now and for the foreseeable future.

Prerequisites

- High school graduation or equivalent.
- 2. Completion of prerequisite courses or equivalents:
- a. Chemistry (one year high school or CHEM 115).
 b. Anatomy and Physiology (BIO 144 and 145,
- 8 units; or BIO 140 and 141, 8 units) or equivalent.

The above classes must be completed with a grade of "C" or better within the past seven years. At least one prerequisite must be completed prior to submitting an application. All three prerequisites must be completed in order for your name to be placed on the selection list for entry into the Program in the Fall Semester. Acceptance is first-come, first-served based on when your file is complete here in the office.

Certificate of Achievement

A Certificate of Achievement will be awarded on completion of the core curriculum plus the required units in one area of emphasis, three units of English (110 or 120), and three units of speech (120 or 122 or 125). An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Associate in Science Degree

In addition to the courses in the major, additional units in genera education (GC) are required for graduation with the Associate in Science Degree. The Counseling Center will assist in identifying these general education courses.

Course Sequence

Core Curriculum

All students complete the following courses in the first year of the program:

Courses

Units

29	Total	
3	Clinical Practicum I	OVTE 120
2	CardioRespiratory Pharmacology	OVTE 114
2	Proficiency Testing II	
	Laboratory Practicum and	OVTE 113
4	Medical Instrumentation II	OVTE 112
4	Cardiovascular Physiology II	OVTE 111
2	Physical Principles of Medicine II	OTE 110
2	Proficiency Testing I	
	Laboratory Practicum and	OVTE 103
4	Medical Instrumentation I	OVTE 102
4	Cardiovascular Physiology I	OVTE 101
2	Physical Principles of Medicine I	OTE 100
Units	Title	Courses
		rogram:

CVTE 215

lota

Total Required

24 53 Vascular Technology Clinical Practicum III

Plus General Education and Elective Requirements CVTE 200
CVTE 203
CVTE 205
CVTE 210
CVTE 211

Clinical Practicum II Medical Instrumentation IV

Diagnostic Procedures II,

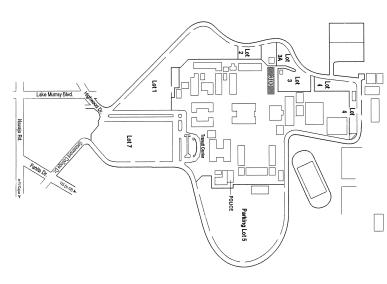
Medical Instrumentation III Diagnostic Procedures I,

Vascular Technology

Vascular Technology **CVTE 205** Courses **CVTE 217 CVTE 215 CVTE 212** CVTE 207 **CVTE 205** CVTE 215 CVTE 211 CVTE 210 CVTE 200 Noninvasive Cardiovascular Technology CVTE 218 CVTE 208 CVTE 202 Courses CVTE 201 Invasive Cardiovascular Technology Areas of Emphasis Diagnostic Procedures I, Medical Instrumentation III Elective Requirements Intracardiac Electrophysiology Diagnostic Procedures I, Clinical Practicum III Diagnostic Procedures II, Plus General Education and Total Required Clinical Practicum III Diagnostic Procedures II, X-Ray Physics and Medical Instrumentation IV Clinical Practicum II Total Invasive Medical Instrumentation II Invasive Medical Instrumentation I Clinical Practicum II Noninvasive Cardiology Cardiovascular Angiography Noninvasive Cardiology Invasive Cardiology Invasive Cardiology Elective Requirements Plus General Education and Total Required Units Units **24** 53 55 26 55 2



GROSSMONT COLLEGE CAMPUS MAP



Carious Technology Boharinen For additional information contact

8800 Grossmont College Drive

El Cajon, CA 92020

Fax 619-644-7961 Phone 619-644-7302

E-Mail JoAnn.Faulise@gcccd.net

http://www.grossmont.net/healthprofessions/CVTWebPage Visit the Cardiovascular Technology website at



GROSSMONT COLLEGE

Bill Garrett, Student Members: Cathy Keyes, Pat Ardilla, 8800 Grossmont College Drive, El Cajon, CA 92020-1799 • 619-644-7000 • www.grossmont.edu • Governing Board Members: Deanna Weeks, Richard Alexander, Timothy L. Caruthers, D.C.,

Chancellor: Omero Suarez, Ph.D., Grossmont College Interim President: Dean Colli, Ed.D.

4 ROSSMONT COLLEG Ħ



cardiac Ultrasound (Echocardiography)

Medicine

Graduation

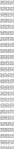
to High-Tech

Dagiosic Vascuar III asoin

Cardiac Catheterization



Skills for a Cardiovascular Healthy Heart



11/2006

GROSSMONT GOLLEGE Cardiovascular Technology

Tardiovascular Technologists participate in the performance of diagnostic tests and procedures in three specialty areas:

- Cardiac Catheterization which utilizes invasive techniques to produce
 x-ray pictures of the heart and special devices to open blocked arteries and prevent heart attacks
- Cardiac Ultrasound (echocardiography) studies; and
- Diagnostic Vascular Ultrasound both of which utilize non-invasive techniques to produce pictures of the heart and blood vessels.

Cardiovascular Technologists assist physicians from a variety of specialties, such as cardiology, radiology, neurology, and cardiac and vascular surgery. Students participate in lectures and labs on campus as well as in clinical experience in local hospitals. The program is accredited by the Commission on the Accreditation of Allied Health Programs (CAAHEP).

Career opportunities are outstanding, offering excellent salaries and employment opportunities locally and throughout the nation. Cardiovascular Technology is a challenging and rewarding career, and provides an opportunity to use the latest in diagnostic and therapeutic technology to help patients with cardiovascular disease.

The Cardiovascular Technology curriculum covers four regular semesters and requires a six-week summer session between the first and second years of study. The first year of the program is composed of on-campus lecture and laboratory classes, offered primarily in the morning and early afternoon. The second year of the program is a series of on-campus lecture and laboratory courses combined with clinical experience in local hospitals. Students must provide their own transportation to the clinical sites. Some late afternoon and evening classes are required. See the Grossmont College official Class Schedule for detailed information.

Grossmont College is a part of the California Community College System and requires an enrollment fee for all students payable at the time of registration. All students are required to pay a health fee. A parking fee will be charged to all students using the parking facilities. A Student Benefit Card is optional. Students are required to purchase their own textbooks. Supplies, including a lab coat and name tag are required. The total cost of the program for a California resident is approximately \$2,000.



Articulation Plan for High School Graduate to a Career in Cardiovascular Technology

NOTE: CYTE 104, 105 and 106 are courses outside the CYT Major. They are designed to produce entry-level ECG Technicians and Telemetry Technicians. Beginning students who complete these courses have an opportunity to work in the field and earn income while attending the two year CYT program.

CARDIOVASCULAR TECHNOLOGY PROGRAM REVIEW

Questions and Responses

CARDIOVASCULAR TECHNOLOGY ACADEMIC PROGRAM REVIEW

Spring 2009

SECTION 1 – OVERVIEW

Department/program history, recent trends, response to last program review recommendations.

Concise History

1.1 Introduce the self-study with a brief department/program history. Describe any unique characteristics, concerns or trends affecting the program and any significant changes or needs anticipated in the next three years. These may include items such as increases or decrease in numbers of full-time and adjunct faculty, sections offered, and growth or decline of the department/program. Remember that this is a broad general assessment versus the more detailed responses and recommendations covered in the following emphasis areas (1 page maximum.)

The Cardiovascular Technology Program was founded in 1972 by Dr. Willard Dellegar. The initial curriculum was composed of a series of courses leading to an Associate Degree in Biomedical Technology which emphasized the repair of specialized medical electronic instruments. While graduates were obtaining employment in that field, feedback from employers and potential employers indicated a greater need for Allied Health Professionals who could assist physicians in the performance of sophisticated medical diagnostic and interventional tests such as cardiac catheterization and angiographic procedures, cardiac ultrasound studies and vascular duplex imaging. Dr. Dellegar enlisted the assistance of local technologists and the Naval Medical Center to revise the program, and over a two-year period the faculty was expanded to include staff from the clinical arena, and the curriculum was revised from a "Biomedical" orientation to a clinically-based, Cardiovascular Technology program.

The current curriculum is composed of a one-year plus one summer session, 29-unit Core Curriculum in mathematics, physics, advanced cardiovascular anatomy, physiology and pathophysiology, medical electronics and instrumentation, cardiovascular pharmacology, and clinical practicum. Prerequisite courses in Chemistry (4 Units) and Human Anatomy and Physiology (8 Units) are required for admission. Following completion of the Core Curriculum, students select one of three specialties in the scope of practice; Invasive Cardiovascular Technology, Noninvasive Cardiovascular Technology, or Vascular Technology. The first year of the program is composed of campus-based lectures and labs. The second year specialty training is composed of on-campus lectures and labs, and clinical experience in local hospitals.

Accreditation for Cardiovascular Technology education was established by the American Medical Association in 1986, and the Grossmont program was the first in the nation to be accredited. Graduates of the program can be found across the country, the Middle East, England, New Zealand and Australia. Most are hired prior to graduation. Hospitals recruit graduates offering salaries in the \$50,000 range, with excellent benefit packages, and sometimes with moving expenses and/or a signing bonus. Our records indicate 100% employment for graduates who want to work.

There is also a need to conduct a needs survey and explore the feasibility of incorporating an additional track into the CVT Program when resources are available. Instruction would be designed to provide certification in the area of Electrophysiology studies, another very specialized component of the scope of practice. Otherwise, the program is stable and no major changes are anticipated in the structure of the curriculum in the near future.

Department Program Goals

- 1.2 Appendix 1 contains the most recent Educational Master Plan for the department/program. Make comments on the following:
 - Which goals have been met? Goal 1 (Recruit faculty) and Goal 2 (provide tutoring) have been met. Goals 3 (SLO's), Goal 4 (Assist ROP with Anesthesia Monitoring courses) and Goal 5 (Curriculum Review) have been addressed and all are on-going.
 - What actions have been taken in achieving these goals and objectives? Two new full time faculty members have been recruited and hired and basic and advanced tutors have been recruited, trained and hired (Goals 1&2). Student learning outcomes have been identified for all courses in fall semester, first and second year levels, and methods of assessment have been standardized and will be published in student syllabi beginning in Fall 2009 (Goal 3). A series of 299 courses have been developed, adjunct faculty hired, and the first group of students entered the workplace as Anesthesia Monitoring Technicians at the end of summer 2007 (Goal 4). Curriculum review is an ongoing process for the department based on changes in the scope of practice and recommendations from the Joint Review Committee on CVT Education (JRC-CVT) and the program Advisory Committee (Goal 5).
 - What obstacles have been encountered? The college policy of filling classes with adjunct instructors for one year prior to authorization to replace full time faculty was very disruptive to our curriculum and the stability of the program. Adjunct instructors are difficult to recruit and hire for the wages paid by our district. We were without a stable faculty for approximately 3 years until the Fall 08 semester.
 - Full time instructors are even more difficult to recruit and hire for the wages paid by the district. Nation-wide searches have been conducted with little success, and when 2 qualified candidates were identified and offered positions, both refused the offer when they were informed of the salary to be paid. This situation has been somewhat temporarily alleviated by obtaining a grant from the Grossmont Healthcare District which was used to recruit and retain qualified instructors. The current coordinator retired at the end of Spring 2006 but has returned on a part-time basis until a new coordinator can be identified and trained to assume that responsibility.
 - How have these goals changed and why? They have not changed.
- 1.2 Appendix 2 contains the most recent Program Review Committee recommendations for the department/program. Describe changes that have been made in the department/program in response to recommendations from the last review.

Here are the four recommendations and the response to each:

Recommendation #1 - Continue to work to develop a viable GE package that better meets the needs of your students. Response: A GE package modeled on the Nursing and Respiratory Therapy programs was developed and approved by the Curriculum Committee in September, 2002.

Recommendation #2 – With other health sciences, utilize campus and district resources for marketing and public awareness of the program in the community. Response: The program is currently impacted and there is a waiting list of approximately two years. It appears that the community is aware of the existence of the program and the potential benefits associated with a career in Cardiovascular Technology.

Recommendation #3 – Advance the planning process for the new and remodeled health science building. Response: The department has been involved in all stages of the process for planning the new building. Both the coordinator, Rick Kirby and one full time faculty member, Don Ridgway, currently serve on that taskforce.

Recommendation #4 – Seek general fund support for the tutoring program. Response: The tutoring budget in the general fund and the Perkins VETA fund were both increased shortly after our last program review and are considered adequate for current enrollments.

Advisory committee Recommendation

Some disciplines such as ESL and vocational program are required to have advisory committees. Answer this question if this is application to your department/program.

The CVT Advisory Committee is composed of 2 physician medical directors, 6 physician specialists in cardiovascular medicine, 7 senior technologist/department managers from local hospitals, the CVT faculty, the Division Dean, and the Presidents of both the 1st and 2nd year classes. The committee meets annually in May to receive a report on the status of the program, review the program syllabus and recommend revisions to the curriculum.

1.4 If appropriate, summarize the principal recommendations of the program advisory committee since the last program review. Describe how the department/program has responded to these recommendations. Include the date of the last meeting and frequency of meetings. List organizations represented.

Recommendations from the committee have centered on maintaining the curriculum to the scope of practice and adequate staffing levels. Specific recommendations have been:

May 2007 – The curriculum was reviewed and found to be appropriate to the scope of practice. There was one recommendation from Drs. Otis and Ceretto that instruction on the evaluation of intimal-medial thickness be added to the Vascular Track curriculum. This topic was added to the course in Spring 2008.

May 2006 – The curriculum was reviewed and found to appropriate to the scope of practice. There was discussion as to possible implications of a combination of diagnostic cardiology labs and interventional radiology sharing the scope of practice. There were no specific recommendations from the committees as to possible impact on the CVT curriculum or competencies.

May 2005 – The committee approved a proposal from the faculty to implement a pilot project to require students in the Invasive Track to sit for the national registry exam during finals week of their graduating

semester. The project was implemented and carried out for 2 years and then changed from a "requirement" to a recommendation. This action was due to inconsistencies in the faculty teaching the courses.

May 2004 – The committee approved the addition of the requirement that students enrolled in the Invasive Track be required to complete Advanced Cardiac Life Support (ACLS) as part of their course work. There was also discussion as to the implications of the pending retirement of Jerome Passman and the challenges to be faced associated with the hiring practices currently in force at the college/district.

May 2003 – There was discussion as to the allocation of specific amounts of time devoted to medical electronics and instrumentation, noninvasive techniques and increased emphasis on abdominal Doppler techniques. There were no specific recommendations from the committee.

Local representation includes:

William J. Ceretto, M.D. – Cardiologist (Co-Medical Director)

Shirley M. Otis, M.D. – Department Chair and Senior Consultant, Neurology Division and Director, Vascular Diagnostics Laboratory, Scripps Green Hospital (Co-Medical Director)

Howard Dittrich, M.D. – Chief Medical Officer, Sequel Pharmaceuticals and Clinical Professor of Medicine, UCSD Medical Center

Mary Kalafut, M.D. – Neurologist, Scripps Green Hospital

Vincent Guzzetta, M.D. Vascular Surgeon

James Mathewson, M.D., Pediatric Cardiologist, Children's Hospital

Michael Botha, RCIS, Manager, Cardiac Catheterization Laboratory, Scripps Chula Vista

Dan Miller, RCIS, Manager, Cardiology Services, Scripps Mercy Hospital

Colin Ramsey, RCIS, Manager, Cardiology Services, Sharp Grossmont Hospital

Marylou Upton, RCS, Manager, San Diego Cardiac Center

James Phan, RCIS, RVT, RCS, MA, Management Team, Scripps Mercy Hospital

Raymond Schwend, RVT, Senior Technologist, Vascular Laboratory, Scripps Green Hospital

SECTION 2 – CURRICULUM, ACADEMIC STANDARDS, AND SUPPORT SERVICES

In Appendix 3, Catalog Descriptions, insert copies of your catalog descriptions from the most recent college catalog (see "Course of Instruction" section). If your program has an Associate Degree program, include the relevant pages for the catalog (see "Associate Degree" section).

Complete – Please see Appendix 3

To complete Appendix 4 Course Status, review your course outlines and complete the form in the appendix to reflect currency of the courses, offerings, and alignment status. The table is complete. Please see Appendix 4.

- 2.1 Review all course outlines and comment on where your department/program is in the process of maintaining currency. Verify that the course outline reflect the writing, reading, and problem-solving skills, quantitative reasoning, and critical thinking across the department/program's curriculum.
- Course Currency CVTE 107, 120, 201, and 211 are due for review and updating. CVTE 201 and 211
 have been reviewed in Fall 2007 and submitted to the Instructional Operations Office for action by the
 Curriculum Committee. The other courses will be submitted for review in the next academic year.

 All courses have been approved by the curriculum committee and reflect the required writing, reading and problem-solving skills, quantitative reasoning, and critical thinking across the CVT curriculum.

2.2 Describe how your department makes decisions related to the following:

a) Identification of student learning outcomes – Primary direction for student learning outcomes is provided by the "<u>Guidelines and Essentials of an Accredited CVT Program</u>" published by the Joint Review Committee on CVT Education. Additional guidance is provided by the CVT Advisory Committee and our clinical affiliates. A collaborative process among all full time members of the faculty is used to refine the input from these sources and then translate them into the curriculum. Curriculum issues are addressed in part via a biweekly CVT faculty meeting and department meetings which include adjunct faculty during Professional Development Week each semester.

b) Methods to demonstrate achievement of these learning outcomes.

Assessment of learning outcomes is evaluated via a combination of written examinations, oral examinations, writing assignments, clinical performance tests, graduate success rates on national registry exams, and graduate placement.

How do you use this information for course and program improvement?

The information is used to identify areas of the curriculum in the scope of practice that require review and revision as appropriate.

- 2.3 Explain how the department/program maintains academic standards, integrity and consistency to assure that current curriculum adequately meets students' needs (e.g., general education, prerequisites, job-specific training, transfer). Explain how the department/program ensures that all instructors teach to the official course outline.
 - a. Academic Standards The courses in the CVT major contain highly technical content dealing with diagnostic and interventional cardiovascular medicine. Graduates of the program work with critically ill patients and there is little room for error in their care. The program requires all courses with the exception of two, to be completed with a minimum of 75% average. The two exceptions are clinical practicum courses and require an 85% average for a passing grade.
 - b. Academic Integrity All CVT syllabi distributed to the students on the first day of class contain the following statement:

<u>Academic Integrity</u>. The Cardiovascular Technology profession demands the highest moral and clinical standards. Cheating will not be tolerated in the Program just as it will not be tolerated in clinical practice. The official Grossmont College policy on cheating is detailed in the Student Code of Conduct, which is available in the office of the Director of Student Affairs. In accordance with this policy, the CVT Department defines cheating as any one of the following:

- Talking to another student during an exam
- Copying (or attempting to copy) answers from another student's paper during exams or
- Quizzes
- Plagiarism in connection with any academic process including submitting tracings, measurements/calculations, or reports which were prepared by anyone other than yourself
- Soliciting or assisting another student to any act which would violate this policy
- Duplicating any copyrighted material for any reason

Instructors have the authority to suspend any student suspected of cheating for the class meeting in which the incident occurs and one additional class meeting. Following a review of the incident, the college policy on student conduct prevails and the student may be denied future access to the Program. Refer to the Student Code of Conduct for additional information on this policy.

This information is also published in the CVT Student Information Booklet. The policy is strictly enforced. In the past 2 years, 2 students have been expelled from the program and the college for committing plagiarism.

Consistency – The program began in 1972 and over the years the curriculum has been refined to insure the appropriateness of the prerequisite courses in preparing students to work at the required level of rigor they encounter in the program. The General Education requirement has been evaluated and modified as appropriate as indicated previously.

The curriculum is totally integrated, and theoretical concepts are often presented as part of one class and then clinical application accomplished in a different class (or lab). If an instructor does not teach to the official course outline, it quickly becomes evident to other members of the staff and corrections are made as appropriate. The issue is documented in the instructor's evaluation and if an adjunct instructor, they may not be assigned classes in the future OR in the case of a full time, non-tenured faculty member, this could be grounds to cease the tenure process and refuse to rehire. In either case, college policy is strictly adhered to. The CVT faculty historically has worked generally well to ensure continuity of the curriculum.

2.4 Using Appendix 5, Grade Distribution Summary Report, comment on retention and grading variability figures. Discuss any specific courses that have unusual retention patterns or grading variances.

Retention – Retention has been consistent in the program since the last program review. First year classes average 10-12% with a slight rise to 13% in Spring 2007. Second year class attrition averages 2-3%.

Grade Distribution – Analysis of the data provided indicates little change in grading patterns over the past 5 years. It should be noted that students accepted into the program average 27 years in age, have completed 12 units of course work in the sciences as prerequisites and are highly motivated to do well. The program does not issue "D" grades and there are few "C's". CVTE 205 and CVTE 215 are clinical practicum courses based in local hospitals and are essentially pass/fail. Grades are derived from student clinical log sheets and assigned clinical case reports.

2.5 Describe strategies employed to ensure consistency in grading in multiple section courses (e.g., mastery level assessment, writing rubrics, departmental determination of core areas which must be taught).

Multiple section courses in the department are clinical lab courses and use multiple measures to assess student competency. Paper and pencil tests, reading assignments, a comprehensive final examination, graded lab exercises, and clinical performance tests are examples. Course content is guided by the <u>Guidelines and Essentials</u> published by the accrediting agency (The JRC- CVT), the CVT Advisory Committee, and our clinical affiliates. Standardized grading sheets have been

developed by the faculty. In most cases the sheets are distributed to the students two weeks or more before the performance exams are conducted so that they are informed of exactly what the instructor will be grading and the points available for each section. Grading variance between instructors has not been an issue to date. Since the full-time CVT faculty is fairly small (four instructors), integration and consistency have been relatively easy to maintain.

- 2.6 Describe how your department/program encourages students to extend learning outside of the formal classroom.
 - a. A 30-station computer center with state-of-the-art machines connected to the Internet is available for students to use in study, research and technical writing assignments.
 - b. Attendance at local and regional seminars and conferences on cardiovascular medicine.
 - c. Assignment to clinical experience in local hospitals which provides availability to a patient population with cardiovascular disease and millions of dollars in state-of-the-art medical diagnostic instrumentation not available on campus.
 - d. Open lab times with trained tutors available to assist in the acquisition and refinement of skills in diagnostic testing.
 - e. An array of technical journals available in the LRC.
- 2.7 Describe and give rationale for any new courses or programs you are developing or have developed since the last program review. How have current issues (environmental, societal, ethical, political, technological) been reflected in your curriculum.

The program has participated in the development of courses designed to teach the principles of Anesthesia Technology. The courses were developed in response to a community request from area hospitals; they were unable to recruit and hire trained Anesthesia Technicians to work in their operating rooms. The program is being developed in conjunction with the ROP Office and the CVT coordinator assisted in the development of the initial 299 courses, interviewing and hiring faculty, and instructor evaluation. Ten courses have been developed, four instructors have been recruited and hired and the official course outlines were scheduled to go before the Curriculum Committee in Fall 08. These courses do not contain environmental, societal, ethical or political subject matter but are highly technical in scope.

2.8 In Appendix 4, Course Status, list the courses in the department/program that are duplicated at Cuyamaca College and identify their alignment status. Comment on courses which have not been aligned and describe the plans for alignment.

None. There are no CVT courses taught at Cuyamaca College at present. Grossmont has the only CVTE Program in the San Diego area and is one of only two accredited programs in the State of California.

Innovation/Special Projects/Community Involvement

2.9 Describe instructional innovations and/or special projects undertaken by the department/program or individual faculty members, including the use of technology.

Don Ridgway has authored a nationally-acclaimed textbook on Vascular Technology. <u>Introduction to Vascular Scanning</u>, from Davies Publications, is now in revision for the 4th edition. His textbook on vascular anatomy and physiology is due out later in the spring of 2009. Don has also published *Vascular Technology Review*, a collection of approximately 600 questions which is used as a tool for

preparation for the national vascular registry examination (also available in CD-ROM format to simulate the exam environment). He is also the Associate Editor of *Vascular Physics Review*, a similar review book for the ARDMS physics exam, and has another textbook on vascular anatomy and physiology nearing completion.

There are two online courses in the department. Both are structured to provide a comprehensive review prior to taking national registry exams.

Another innovation/special project undertaken by the department is the Anesthesia Technician program previously described.

2.10 With the interest and needs of the community in mind, describe any outreach or community activities initiated by the department/program.

The program coordinator holds a one-hour weekly orientation meeting each Tuesday at 9:00 AM. The meeting is open to members of the public and/or students in other courses at the college and provides a detailed overview of the Cardiovascular Technology profession and a tour of the CVT Laboratory.

The program participates in the Career Fair each fall semester and the Health Fair each spring semester.

Don Ridgway and the students enrolled in the Vascular Track of the program conduct a cardiovascular screening test for members of Club 65, a senior services group at Sharp Grossmont Hospital. Seventy-one patients were screened for evidence of lower-extremity disease in November 2007. Three patients were identified to have evidence of disease and were referred to their physicians for early intervention. Screenings for carotid artery disease and abdominal aortic aneurysm are held at Grossmont Hospital's cardiology department in the spring.

2.11 Provide specific examples of departmental or individual efforts aimed at encouraging students to become actively engaged in the learning process.

Students are required to work in a group of their peers (typically 4 students) as they acquire and refine their diagnostic skills such as blood pressure measurement, segmental pressure determination, electrical circuit analysis, echocardiography, aseptic technique and duplex ultrasound studies. The students are fully engaged in the instructional process and support/oversight is provided by a combination of CVT faculty and second year students.

2.12 Explain the department/program's relationship to others on campus (e.g., fulfill prerequisites for other general education programs, cross-listing, interdisciplinary course offerings, learning communities.)

The program relies on other departments on campus to provide prerequisite and general education courses. Special reliance is placed on the Chemistry and Biology departments and cooperation has been excellent in the past. There are no cross-listed interdisciplinary course offerings in the department.

Campus Resources

- 2.13 Indicate what the department/program has done to formalize links with the following college support services:
 - Learning Assistance Centers (Biology Learning Center, English Writing and Reading Centers, Math Study Center, Tutoring Center) The only referral used routinely from CVT is the English Writing and Reading center when language deficiencies in our students are detected.
 - **Technology Mall** The department occasionally reserves a room to conduct online exams or projects.
 - Instructional Media (upstairs in the Library Technology Resource Center) The department maintains an extensive collection of audiovisual material in Room 329A so little interaction occurs with IM Services.
 - Others n/a
- 2.14 Evaluate and provide a summary of the current status of library resources related to the department/program. Use the subject-specialist librarian assigned to your department/program to assist in the evaluation. Consider books, periodicals and online resources.

The following journals are available in the LRC and are considered adequate to the scope of practice and current enrollments.

PUBLICATION	AVAILABILITY
Circulation	1990 - Date
Index Medicus	1976 - Date
Journal of CV Surgery	1991 - Date
Journal of Invasive Cardiology	1989 - Date
Journal of the American Society of	1989 - Date
Echocardiography	
Journal of Ultrasound in Medicine	1990 - Date
Journal of Vascular Technology	1989 - Date

There is also a wide array of textbooks on Cardiovascular Disease. It has been noted that use of the materials in the LRC by our students has decreased in recent years since the majority rely heavily on the Internet for learning outside the classroom.

2.15 Describe the working relationship between the department/program and the Counseling Department in terms of exchanging specific and current information about your department/program that counselors can use to help students develop education plans and make career decisions.

The program coordinator attends the Counseling Center Staff meeting annually in March and in some cases during Spring and Fall semesters in order to provide an overview of the program, demand for graduates and request assistance in identifying students interested in technical careers in Allied Health. The department also reviews and updates the Planning Sheet on an annual basis which is used by the counseling staff when advising students as to courses required to enter and complete the program and Associate Degree.

2.16 Comment on the results of the student survey, Appendix 6, regarding campus resources.

Assessment & Testing Center – 81.6% of CVT students report that they rarely or never use this service. Of those who do, it is likely those who take assessment tests in Mathematics in order to enroll in the Chemistry prerequisite course for CVT or English to determine which course to take for the AS Degree or certificate.

Career Center – 98.5% of CVT students report that they rarely or never use this service. It should be noted that students entering the CVT Program have already selected the profession as a career path and completed 12 units of prerequisite course work. The program maintains an extensive listing of jobs available upon graduation. The Career Center has been supportive of the program in providing an outstanding workshop on resume preparation which was presented to the Classes of 2006, 2007 and 2008 by Nancy Davis.

Counseling Office – 97.1% of CVT students report that they rarely or never use this service. Students are encouraged early in the first year of the program to schedule an appointment with counseling in order to determine eligibility for their Certificate of Achievement or the Associate Degree.

English Writing Center – 95.4% of CVT students report that they rarely or never use this service.

English Reading Center – 98.4% of CVT students report that they rarely or never use this service.

Health Services – 96.0% of CVT students report that they rarely or never use this service. However, many of our students have used this service in the past to obtain physical examinations and immunizations prior to entering the program or being assigned to clinical practicum in local hospitals. Additionally, the program encourages second-year students to obtain flu shots, which is desirable in health-care workers. (Flu shots are likely to become mandatory for health sciences students in clinical sites in the near future.)

LRC: Computer Lab (SETL) – 52.1 % of our students report that they rarely or never use this service. The remaining students fall into the other two categories; often, 2-5 times/week (19.7%) or rarely (28.2%). It should be noted that CVT students have access to the Health Professions Computer Center, Room 352A which is located in the building 35 adjacent to the CVT Lab and provides access to the Internet in addition to a wide array of online learning resources.

LRC: Instructional Media – 16.9% of CVT students report that they sometimes use the video carrels in the LRC. They are likely used for study sessions in preparation for exams.

LRC: Main Library – 41.4% of CVT students report using the main library. As noted earlier the Internet has become the primary tool for research used by our students.

Math Study Center – 96.9% of CVT students report that they rarely or never use this service. Tutoring in mathematics and physics is provided by the CVT faculty as required.

Student Affairs Office – 93.6% of CVT students report that they rarely or never use this service.

Tutoring Center - 95.4% of CVT students report that they rarely or never use this service. Tutoring in CVT topics is not available in the Tutoring Center so this service is provided by a combination of 2^{nd} year students and the CVT faculty.

2.17 List courses that have been formally articulated with the high schools. Describe any articulation and/or collaboration efforts with K-12 schools.

None of the CVT courses have been formally articulated with area high schools. A brochure is available which describes a pathway for a high school student to follow for entry into the CVT profession. It outlines the prerequisite courses, suggests high school courses for completion in the sciences and then gives an overview of the major courses. The brochure is distributed at career fairs and when high school students visit the campus and the CVT laboratories. A copy of the brochure is included at the end of this booklet.

2.18 After reviewing ASSIST.org and the Grossmont College articulation website, please identify if there are any areas of concern or additional needs your department has about articulation with four-year institutions. Please describe how the department/program ensures that articulations with key four-year universities are current.

The program is not officially articulated to any four-year institutions. The program provides competency in entry-level positions as Cardiovascular Technologists. Graduates who continue their education typically pursue degrees in related areas such as advanced physiology, computer science, education, administration, allied health care management, and research methodology. There is a program at National University that accepts our graduates at an advanced level should the students decide to pursue a degree in Medical Administration/Management.

SECTION 3 – STUDENT ACCESS AND SUCCESS

3.1 In addition to the innovations listed in 2.11, describe specific ways the department/program has adjusted or developed curriculum to foster student success (e.g., addition of pre-collegiate introduction courses, bridge courses, variable unit courses, on-line courses, honors courses, web enhanced learning).

None other than those listed in detail in 2.11.

3.2 Analyze Appendix 7, Statistical Data: Outcomes Profile, and comment on strategies utilized to address the needs of the various cohort groups. Provide specific strategies that have been used to meet the different needs of your students (e.g. re-entry, academically under prepared, working, disabled, limited English.)

Students who enter the program have completed 4 Units of Chemistry and 8 Units of Human Anatomy and Physiology. The Chemistry course has a math prerequisite. The students are generally mature, (average age =27 years) highly motivated and accustomed to working at the level of rigor required in the CVT Curriculum. Some have Bachelor's and/or Master's Degrees and most classes have 1-2 foreign-trained physicians.

Students comment that the most helpful strategy to promote success is the provision of 2^{nd} year students to serve as tutors to 1^{st} year and especially in the labs where they acquire and refine their skills in performing specialized diagnostic medical tests.

In some cases students who struggle with the English language have been referred to the ESL department for assistance.

3.3 If state of federal licensing/registration examinations govern the program, please comment on student success.

Graduates sit for national registry exams administered by Cardiovascular Credentialing International, (CCI) for Invasive, Noninvasive and Vascular Technology, or the American Registry of Diagnostic Medical Sonography (ARDMS) for Noninvasive and Vascular Technology only. Graduates who pass the national registry typically have greater access to jobs and begin work at a higher level on the salary schedule.

Passing the national registry exam is not a requirement to enter clinical practice, so the numbers of students taking the exam each year varies. The exam is costly and rigorous, and some excellent students opt not to take the exam despite advice and encouragement from the faculty to do so. There is currently a national movement to accredit clinical labs (the same as educational programs) to ensure quality of practice; this will likely lead to mandatory registry or licensure of the profession in the future. For years prior to 2006, CCI did not report the national average for the Invasive registry so that data is not available.

The table below demonstrates graduate performance over the past three years and shows that Grossmont graduates generally exceed the national average pass rate.

YEAR	SPECIALTY	GRADUATES	TOOK EXAM	PASSED EXAM	GROSSMONT AVERAGE	NATIONAL AVERAGE
2006	Invasive CVT	18	18	12	66.7%	69.2%
2006	Adult Echo	16	10	10	100.0%	72.8%
2006	CV Physics	16	12	11	92.6%	56.0%
2006	Vascular Physics	10	1	0	0	60.3%
2006	Vascular Technology	10	1	0	0	56.7%
2005	Invasive CVT	17	17	8	47.1%	Not reported
2005	Adult Echo	16	11	10	90.9%	55.7%
2005	CV Physics	16	13	8	61.5%	53.5%
2005	Vascular Physics	12	12	10	83.3%	64.4%
2005	Vascular Technology	12	5	4	80.0%	57.0%
2004	Invasive CVT	16	1	0	0	Unknown
2004	Adult Echo	18	6	6	100%	61.2%
2004	CV Physics	18	8	7	87.5 %	55.1%
2004	Vascular Physics	10	8	2	25.0%	56.5%
2004	Vascular Technology	10	7	7	100%	86.2%

3.4 Discuss strategies and/or activities that have been, can be, or will be used to promote/publicize the courses/department/program. Include activities your faculty have implemented to provide closer connections to primary, secondary and post secondary schools. Consider campus/district resources that have been useful. Using the Student Survey, comment on how students learned of this program.

The department uses a color brochure, an entry in the *Class Schedule* each semester, and weekly orientation meetings to publicize and promote the program. The orientation meetings are held in the CVT Office and include a tour of the lab and overview of some of the equipment used in diagnostic cardiovascular technology. Analysis of the Student Survey reveals the following as to how students learn about the availability of the program:

N = 92 Students surveyed

Note: Since students are able to select more than one option the total exceeds 100%.

Friend & Family member	58.3%
Grossmont Webpage	30.6%
Work referral	13.9%
Grossmont Catalog	12.5%
Grossmont Counselor	9.7%
Grossmont Instructor	6.9%
Cuyamaca College	2.8%
Presentation	
Public Media	2.8%

3.5 Referring to *Appendix 7*, Statistical Data, Outcomes Profiles, *Appendix 8*, Efficiency Report, and *Appendix 5*, Grade Distribution Summary Report, comment on <u>emerging trends</u> of course completion, success, retention, and enrollments.

Course Completion – Course completion rates average 94.1 percent and have been stable over the reporting period.

Success – Overall success rate for CVT students reported for gender, age and ethnicity is 91.7% and has been stable over the period reported.

Retention – The retention rate for CVT students when reported for gender, age and ethnicity is 94.1% and has been stable over the period reported.

Enrollments – Enrollments have remained stable since the program accepts the same number of students each year (54 Students) based on available lab stations, faculty, equipment and clinical sites available in San Diego County.

3.6 Referring to Appendix 9 if the department/program offers a major or certificate in the college catalog, comment on the trends regarding number of students who earn these degrees and/or certificates.

The number of degrees and certificates awarded each year has remained relatively consistent over the past 5 years. Degrees awarded averages 27 and certificates average 39. It should be noted that students who satisfy the requirements for the degree automatically are qualified to receive the certificate and most apply for both.

SECTION 4 – DEVELOPMENT OF HUMAN RESOURCES

In Appendix 10, complete Conference, Workshops, Staff Development and Sabbaticals forms.

4.1 Describe how participation in activities listed in *Appendix 10* have resulted in improvement in curriculum and instruction.

Attendance at local, regional and national workshops, conferences and symposia is critical to maintaining the curriculum current to the scope of practice. These meetings feature national and international speakers who present the findings of their research; clinical cases reports and in some cases live demonstrations of new methods used in the diagnosis and treatment of cardiovascular disease. The information is then translated into the curriculum as appropriate.

4.2 Forecast your staff development needs both within and outside of the institution.

Within the Institution – Continued support as student learning outcomes are developed and incorporated into the curriculum. Campus support for instructors to incorporate online/hybrid classes into the CVT Curriculum.

Outside the Institution – Continued support to fund registration, travel and accommodations for at least two instructors to attend national meetings each year on a rotating basis.

4.3 Describe how the members of the department/program are helping to shape the direction of the college (e.g., writing grants, serving on college/district committees, task forces, Academic representation, etc.).

Don Ridgway serves on the Health Professions Building Taskforce and the Academic Senate. Rick Kirby serves on as a member of the Academic Senate, Council of Chairs and the Division Council of Career/Technical Education and Workforce Development. He is also a member of the building taskforce and the Grossmont Health Care District building taskforce.

The other 3 full time, CVT faculty members are on tenure track and are not encouraged to volunteer for committees until the 3rd year of the process. They are instead encouraged to concentrate on teaching strategies, classroom management, student clinical placement, and student assessment methods.

4.4 Describe how the members of the department/program contribute to the community beyond the college, locally, statewide, and nationally.

Don Ridgway – Author of 2 textbooks which are used nationally, associate editor and contributor to a third book and a 4th book to be published in Spring 2008. Don also provides leadership for his students in the Vascular Track of the program to conduct annual vascular screening exams for members of "CLUB 65," a senior citizen's group associated with Sharp Grossmont Hospital.

4.5 Describe how decisions are made in your department/program.

Through a collegial process which typically begins with discussion at a faculty meeting or during professional development week. In so far as possible and where applicable, all decisions are measured against the program Mission Statement, "Academic Excellence through student-centered learning in a creative, supportive environment."

4.6 Describe how computer resources, such as the Internet, department and faculty web pages, and emails are used by faculty in the department/program.

The Internet is used extensively by the faculty to research the medical literature in course preparation, teaching materials acquisition and assignments for students. The department web page is used by perspective students to learn about the structure and policies of the department and to communicate with the program coordinator and the faculty. Email is widely used throughout the department.

4.7 If your department/program has hiring equivalencies, explain the rationale and comment on alignment with Cuyamaca. Please list equivalencies in *Appendix 11*.

The hiring equivalencies used by the department are modeled after those required by State Chancellor's Office and incorporate the recommendations of the *Guidelines & Essentials* published by the Joint Review Committee on CVT Education. The *Guidelines & Essentials* require that teachers in an accredited program demonstrate competency in the scope of practice by passing a national registry exam administered by Cardiovascular Credentialing International (CCI) or the American Registry of Diagnostic Medical Sonographers (ARDMS). The minimum qualifications and equivalencies are included in Appendix 11.

4.8 List and describe the duties of classified staff, work study and student workers who are directly responsible to the department/program.

JoAnn Faulise was the Health Professions Student Specialist for many years and provided administrative support to the CVT Program, the Orthopedic Technology Program and the Speech Language Pathology Program. Her duties were myriad and included:

- Providing secretarial support to three program coordinators
- Routine clerical duties (answering phones, typing, preparing correspondence, maintaining student files, maintaining clinical logs, mailing, processing and filing student assessment reports, preparing state and national reports, preparing accreditation documents)
- Providing information about the programs to the public by a variety of means (mailing brochures, answering telephone questions, greeting and answering questions for walk-ins, responding to email messages, preparing materials for presentations to students and the public
- Development and maintenance of the Web pages for the 3 programs
- Accept and review student applications, transcripts and other information to determine compliance with program perquisites.
- Accept and review student physical and dental forms to assure program compliance and verify that CPR, Tbc, Drug Screening and Criminal Background Checks and Malpractice Insurance compliance requirements are met and on file prior to student assignment to clinical practicum.

JoAnn passed away in November 2008 following a protracted illness, and her position is currently filled by Leslie Lacher who is a temporary employee. The position will be filled on a permanent basis when college resources permit.

The department also shares with the other Health Professions Programs in the support provided by two Health Professions Laboratory Technicians, Pat Murray and Dan Lopez. The technicians provide services which include:

- Preparing labs and equipment
- Providing instructional equipment such as projectors, computers, sound amplification equipment
- Training and supervising work-study students in the performance of their duties
- Performing routine maintenance on equipment
- Providing inventory control, ordering and stocking consumable supplies

The department also hires 2nd year students to serve as tutors to 1st year students in the acquisition and refinement of basic clinical skills and to work in the Health Professions Computer Center. The number of tutors employed varies semester-to-semester. There are currently 16 students employed.

4.9 Discuss your staffing factors that influence the effectiveness of the program. Does your department/program need to decrease, maintain, or increase the number of full-time faculty? Support your response with enrollment trends, future outlook for your department/program and any information related to changes in the economy, business or human services needs. Include discussion of part-time vs. full-time ratios and dependence on overloads.

The optimal number of students for enrollment in the program each year is 54. This number is determined by the number of hospitals/clinical sites available in the San Diego area for clinical experience in the second year of the program and considers an attrition of approximately 10-12% in the first semester. Current staffing levels of 4 full time and 7 part time instructors are considered adequate for the instructional program at current enrollments.

Coordination of the program is a full time job but is routinely filled by a full time faculty member who also teaches classes in accordance with college policy. The CVT Coordinator is also responsible for coordinator support for the Telemetry Tech, Ortho Tech and Anesthesia Tech programs. While an increase in full time or part time faculty is not needed at this time, a full time position for the CVT Coordinator would be optimum for the overall effectiveness of the programs.

SECTION 5 – SCHEDULING EFFECTIVENESS AND ROOM UTILIZATION

Refer to Appendix 7 for efficiency. Enrollment will come from Data on Demand; Appendix 5 has the sections and class sizes. Appendix 12 shows % of max.

5.1 Using Appendices 7 and 8, comment on student success figures since the last program review. How does this compare to the campus-wide figures?

Percent Student Success

- a. Gender Overall success rate by gender over the past six years had a range of 88.9% 94.8% and a mean of 91.4%. Retention of female students is slightly higher than males by less than 5 points in general.
- b. Age Success by age in the same period demonstrated a range of 88.9% 94.8% and a mean of 91.9%.
- c. Ethnicity Success by ethnicity for the same period demonstrated a range of 88.9% 94.8% with a mean of 91.8%.

The overall mean success rate for CVT courses is 91.7% which is significantly higher than that of the overall college average of 64.6%.

There is a general tendency that older students have higher success rates. The data indicates that students in the age range of 20-29 were most successful with regard to percent success.

Student success by ethnicity is listed in the following table:

Pacific Islander	100.0%
Asian	96.5%
White non-Hispanic	93.2%
Unknown	91.4%
Hispanic	90.8%
Other	89.4%
Filipino	86.9%
Black non-Hispanic	86.0%
American Indian-Alaskan	83.8%
Native	

Course Retention

Course retention CVT students for the reporting period averaged 94.1 percent compared to a college average of 78.2%. Female retention rates are generally higher than males. The highest retention by age is 25 – 29 years group. Retention by ethnicity percent rates tend to follow those for student success with Asian students slightly higher than all other groups and Hispanic being slightly lower.

5.2 Analyze and comment on any trends in enrollment, numbers of sections offered, average class size and efficiency.

The number of students that can be enrolled in the program is determined by faculty and laboratory resources and the number of clinical sites available for placement of 2nd year students in the San Diego area as noted earlier. Fifty- four students are accepted to begin training each Fall Semester, and there is a waiting list. Enrollments, numbers of sections average class size and efficiency have remained stable since our previous Program Review.

5.3 Comment on any sections that are historically under-enrolled and discuss strategies that might increase enrollment.

Not applicable. Please see 5.3 above.

5.4 Comment of the adequacy of facilities (e.g., does room size and configuration fit the teaching strategies?) and equipment for meeting instructional needs.

Classrooms for lecture classes are adequate for current enrollments. Some sections of lab are crowded but manageable. There is inadequate room to store equipment throughout the 300 North building which has a negative impact on all Allied Health Programs. Construction of the new Health Science building will address that issue.

5.5 How does room availability affect your enrollment?

Please see item 5.2 above.

5.6 Discuss alternatives your department/program has explored including off-site offerings.

If assignment to students for clinical experience is included in off-site offerings, the program obviously relies heavily on local area hospitals and clinics to support our instructional program. It would not be effective or efficient to offer the majority of our major classes off-site since many are related to medical instrumentation located on campus. Although a class may be designated as "lecture" in scope, it is not unusual for an instructor to bring an electrocardiograph, ultrasound machine, pacemaker or other medical device into the classroom to enhance learning.

5.7 Comment on the results of the Student Survey, *Appendix 6*, focusing on class times and facilities.

FACILITIES:

Classrooms – 92.2% of student strongly agree or agree that the classrooms are clean and in good repair.

Equipment – 15.6% of students strongly agree, 42.9% agree and 15.6% are neutral on the availability and currency of equipment. 26% of the students agree or strongly disagree. It should be noted that the equipment consists of highly supplicated medical instrumentation and most is state-of-the-art and is deemed by the faculty to be adequate to current enrollments. The currency and state of the equipment is currently at the highest level in the history of the program. The current need for equipment in the lab is for additional monitors for the lab tables in Room 349 and will be a priority in our request for FY 2008.

Computer Technology – The Health Professions Computer Center has been upgraded by Instructional Media Services at the close of the Fall 07 semester. When the student survey was conducted 72.8% of students responded that computer technology was adequate and that number is expected to rise following the recent upgrade.

Class Times – The CVT curriculum tototally integrated, and all students must be fully enrolled in the Spring and Fall courses as appropriate. The labs are used extensively and shared with ROP and Anesthesia Technology classes, leaving little flexibility of altering the class schedule. Lectures and labs must also be scheduled in consideration of student assignment to local hospitals for clinical practicum.

SECTION 6 – FISCAL PROFILE

6.1 Using Appendix 12, Subject WSCH Analysis Report: comment on trends reflected in the column "Earned WSCH/FTE(F)" for your overall department/program, and for specific courses over a five year period.

The overall WSCH/FTEF for the fall semesters were evaluated and the following data obtained:

Semester/Year	WSCH/FTEF
Fall 01	284
Fall 02	360

Fall 03	366
Fall 04	384
Fall 05	356

Analysis: The WSCH/FTEF has remained relatively consistent over the years Fall 02 through Fall 05. The increase from 284 to 360 from Fall 01 to Fall 02 was due to an additional course being added to the Invasive Track of the program.

6.2 Using Appendix 14, Fiscal Data; Outcomes Profile: analyze and comment on Earned WSCH/FTEF and Cost/FTES of the Department/Program.

Total WSCH grew from 3,567 to 4,372 from FY 01/02 to FY 02/03 and has remained consistent over the past 5 years. The average for that period is 4472. Cost/FTES has declined from \$4,192.08 to \$3,436.13 over the same period. The average is \$3,626.

6.3 If the department/program receives any outside financial support or subsidy, list those sources and the amount. Describe how the additional resources are used and how they relate to the regular college budget.

The department was awarded a Bridge to Salary Grant for \$100,000 by the Grossmont Healthcare District in August 2008. The funds have been used to provide a \$1,000/month stipend to 4 full time CVT faculty members. The funding will be adequate for 2 years of stipends. The Grossmont Foundation has conducted a campaign to raise funds, resulting in approximately \$19,000 in donations. These funds will be used to recruit and retain qualified faculty. The fund-raising effort is on-going. In addition, the department receives VATEA funds to support the instructional process. A total of \$9,360 was received in VATEA funds for FY 07/08 and they were used for tutors, supplies and equipment.

SECTION 7 – SUMMARY

- 7.1 Summarize department/program strengths and weaknesses in terms of:
 - teaching and learning
 - student access and success
 - development of human resources
 - fiscal stability

Teaching & Learning — The Cardiovascular Technology faculty are highly motivated to excellence in their profession. They are outstanding mentors for our students and work hard to maintain currency to the scope of practice and in turn insure their courses are maintained on the cutting edge of medical diagnostics and intervention. Learning is student centered, uses current teaching methodology and equipment, and is designed to promote critical thinking, which is absolutely essential for a Cardiovascular Technologist in clinical practice. Our campus labs are equipped with state-of-the-art medical instruments and students have access to millions of dollars worth of equipment through our clinical affiliates that is not available on campus. A portion of our advanced clinical labs are conducted at local hospitals by practicing technologists where students receive virtually one-on-one instruction in invasive diagnostic and interventional cardiology, and cardiac and vascular ultrasound. There are two physicians that serve as our Medical Directors and an outstanding Advisory Committee to provide guidance as to curriculum content and currency. The program has support from the medical equipment industry, who provide discounts on equipment and in some cases provide expensive medical instruments for our students. The most recent example was the donation of a \$63,000.00 ultrasound machine by Biosound Esaote, Inc.

The biggest challenge to teaching and learning in the past 6 years has continued to be the difficulty in recruiting and maintaining qualified faculty. Graduates of the program typically begin their career as a Cardiovascular Technologist at a higher salary than a beginning college teacher. When an

experienced, qualified technologist is found who can also "teach," the program is unable to compete with the salaries paid in clinical practice which can average \$80,000 to \$90,000 per year base, plus additional income for being on call for emergency cases.

The other major challenge to the program in recent years has been the lack of space to store equipment, but that will be eliminated when the new science building is completed.

<u>Student Access & Success –</u> Graduates of the program are recruited by hospitals and clinics nationwide. They obtain good jobs with excellent salaries and benefits and make a tremendous contribution to the diagnosis and treatment of patients with cardiovascular disease. Many go on to be managers, writers, teachers, medical researchers, and sales or applications reps in the medical equipment industry. These positions are stable with little threat of layoff during times of economic down-turn. The program has graduates throughout the United States, Australia, New Zealand, England, and the Middle East.

Access to the program follows a standardized process of first-come-first-served upon documentation of completion of the prerequisite courses. The number of students accepted is determined by available resources on campus and the number of clinical sites in San Diego County. There is an approximate 2 year waiting list to enter the program.

<u>Development of Human Resources</u> - Cardiovascular Technology is a very technical and ever-changing profession as new diagnostic and treatment modalities are incorporated into the scope of practice. In order for faculty to remain current in their specialty conference attendance where they can hear presentations on the latest findings in cardiovascular research, network with their peers and evaluate state-of-the-art instrumentation is essential.

One of the department activities for 2009/2010 focuses on exploring ways to develop selected components of the CVT curriculum in online or hybrid format and will require professional development for the faculty.

The current coordinator of the program has retired but returned to work until the faculty is stable at which time a new coordinator will be appointed and trained to assume the responsibilities of the department.

<u>Fiscal Stability</u> – The CVT budget is adequate for current enrollment provided an answer can be found with regard to faculty salaries. We have been fortunate to share in a series of block grants and donations that bring our labs and equipment to state-of-the-art status.

The skills necessary in diagnostic medical imaging cardiac interventional procedures require small labs and tutor support, which makes the average CVT lab rather costly when compared to labs conducted on campus.

SECTION 8 – CONCLUSIONS AND RECOMMENDATIONS

8.1 Make a rank-ordered list of department/program recommendations. These recommendations should be clearly based on the information included in Sections 1 through 7. Do not limit recommendations to only those dealing with resources.

Recruit and hire a replacement for the CVT Health Professions Specialist

Begin training a member of the CVT faculty to assume the Program Coordinator position Continue the provision of qualified tutors to assist students in the acquisition and refinement of basic and advanced skill in diagnostic testing

Maintain the curriculum current to the scope of practice

Explore ways of encouraging students to maintain contact with the program and to participate in national registry exams

Complete the transition and physical relocation of the department to the new science building Develop selected components of the CVT curriculum into online or hybrid format Continue the existing and expand program linkages to the medical equipment industry in order to acquire state-of-the-art instrumentation to be used in lab practicum.

CARDIOVASCULAR TECHNOLOGY PROGRAM REVIEW

Summary Evaluation