CRC – PART ONE CORE REVIEW

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CRC PART I – CORE REVIEW MEDICAL ASSISTING

A. Catalog Course Descriptions

A. Catalog Course Descriptions

SUMMARY

A review of the Medical Assisting Department catalog descriptions showed that all were accurate except for the following:

A grammar mistake in the description for the MDA 2010 – Medical Office Medications. The description should read "oral <u>and</u> parenteral medications" instead of "oral parenteral medications".

MDA 2460 – the prerequisites listed have not been updated to reflect the BIS to MDA course changes that have already gone through curriculum. BIS 2100 is now MDA 1055, BIS 2107 is now MDA 1053, and BIS 2108 is now MDA 2383.

• The MDA department plans to fix the errors through the curriculum process.

MDA 11703 Credits Medical Assisting Laboratory Procedures

This course is designed to give the medical assisting student practical experience in the collection and handling of various specimens and in the performance and interpretation of tests done in the physician's office. These include Gram staining, initial culture taking, basic microbe identification, routine urinalysis, hematology, and other basic lab tests. Emphasis will be placed on patient contact orientation, contamination of specimens, patient education prior to testing, and explanation of results. Course/lab fees.

MDA 1200 1 Credit Basic X-ray Techniques and Spirometry

This course is designed to teach the student the medical assistant's role in preparation of the patient for the diagnostic procedures of radiography and spirometry. Emphasis is on basic radiological positioning and techniques. This course will include discussion of equipment, as well as safety precautions and protection. Course/lab fees.

MDA 1250 1 Credit Phlebotomy

This course will provide instruction in the skill of phlebotomy by lecture, demonstration and lab practice. It will include universal standards, proper equipment and technique, skills for problem draws, specimen handling, quality control, interpersonal skills and professional liability. Course/lab fees.

MDA 13503 Credits Medical Law and Ethics

This course is designed to give the Medical Assisting student and other health care practitioners a knowledge of law and ethics as they pertain to medicine. The course will provide the student with a thorough understanding of his medico-legal responsibilities and relationship to his physician/employer and patient. Emphasis will be placed on the practical application of the principles of medical law and ethics.

MDA 14613 Credits Medical Assisting Externship I

Pre or Corequisites: CIS 1000, or CIS 1050, and MDA 1051, MDA 1140, MDA 1200, MDA 1250, MED 1103

This course covers a review and rotation sequence of practical experience in offices of qualified Physicians and/or accredited hospitals and clinics. Skills acquired in the first year of the Medical Assisting program will be applied during the 90 hours of clinical practice under the supervision of College faculty. In addition to medical office practice, human relation skills will be stressed in the course work. Course/lab fees.

MDA 15703 Credits Basic Electrocardiography

Students will gain hands-on experience using an electrocardiograph machine after learning the circulatory, conduction and mechanical systems of the heart, Einthoven's Triangle, cardiac depolarization, repolarization and terminology. Drugs and their effect on the heart will be discussed. The student will learn to measure the cardiac complex, recognize and eliminate artifacts on a graph and identify basic arrhythmias of the heart as recorded on the EKG. Holter Monitoring and the principles of stress testing will also be presented. Course/lab fees.

MDA 15803 Credits Intermediate EKG and Arrhythmia

Prerequisites: MDA 1570

This course will provide an intermediate level of understanding of the 12 lead EKG and cardiac arrhythmia as documented on the electrocardiagram including arterial and ventricular arrhythmia, heart blocks, aberrant ventricular conduction, myocardial infarction hypertrophy and pacemaker spikes. Course/lab fees.

MDA 20103 Credits Medical Office Medications

Pre or Corequisite: MED, 1103

This course will provide the Medical Assisting student with a basic understanding of drug therapy, including the legal, technical, ethical and moral aspects of handling and administering medications. The Medical Assisting student will practice administration of oral parenteral medication. Nutritional supplements and diet supplementations related to therapy as prescribed by the physician will be covered. High school algebra background is needed in the calculation of drug dosages. Course/lab fees.

MDA 23804 Credits Medical Office Insurance Coding and Billing

Pre or Corequisites: CIS 1000 or CIS 1050, and MED 1103

This course will give the student the fundamentals of medical office insurance diagnosis and procedure coding as well as skills required to produce mailable forms in a timely manner to: Blue Shield, Medicare, Medicald, Champus and other third party payers. Students will learn to reconcile payments and rejections, process inquiry forms and understand the Diagnostic Related Groupings and how they relate to inpatient regulations. Course/lab fees.

MDA 2383 1 Credit Medical Office Insurance Coding and Billing Applications

Pre or Corequisite: MDA 2380

Students apply their knowledge in medical terminology, insurance coding and billing and word processing skills by executing accurate claim submissions for reimbursement, utilizing a billing software program. The students will be required to complete computer-based assignments.

MDA 24103 Credits Ophthalmic Assisting Procedures I

Pre and Corequisite: MED 1103, or consent of instructor.

This course is designed to acquaint the student with the duties and responsibilities of assisting in the specialty of ophthalmology. The student will be instructed in the following: structure and function of the eye, disease processes, patient history, chart documentation and refractive status of the eye. Course/lab fees.

MDA 24203 Credits Ophthalmic Assisting Procedures II

Pre and Corequisite: MDA 2410, or consent of instructor.

This course will provide instruction regarding the function and usage of instruments for diagnostic purposes in the area of ophthalmology. The student will be instructed in the following: visual field testing, retinoscope, tonometer, keratometer and exophthalmometer. Course/lab fees.

MDA 24604 Credits Medical Assisting Externship II

Pre or Corequisites: BIS 2100, BIS 2107, BIS 2108, MDA 1170, MDA 1350, MDA 1461, MDA 1570, MDA 2010, MDA 2380.

This course covers a review and rotation sequence of practical experience in offices of qualified physicians and/or accredited hospitals and clinics. Skills acquired in the Medical Assisting program will be applied during the 120 hours of clinical and administrative practice under the supervision of College faculty, in addition to medical office practice, human relation skills will be emphasized in the course work. Course/lab fees.

MDA 25604 Credits Medical Assisting Seminar

This course is designed to review the entire Medical Assisting curriculum in preparation for writing the CMA certification exam. Emphasis will be placed on transdisciplinary, administrative, and clinical areas. This course will apply toward CEU requirements for recertification of Certified Medical Assistant through the AAMA. Course/lab fees.

(MEC) MECHANICAL TECHNOLOGY

MEC 1010.....3 Credits Introduction to Manufacturing Processes

Prerequisites: Secondary school algebra and geometry or MAT 1100 or consent of instructor. The student will explain basic manufacturing procedures in terms of materials tooling, machines, molding, measurements, gauging, automation and selected machine operations. Course/lab fees.

MAT 16304 Credits College Algebra and Trigonometry

Prerequisites: MAT 1540 and MAT 1560 (or equivalent college transfer courses) with a "C" or better within the last three years or COMPASS math placement test results appropriate for this course within the last two years.

This course is meant to be a review of the real number system and basic algebra, including inequalities, absolute value, exponents and radicals; functional notation and composition of functions; linear and quadratic functions; rational and algebraic functions; exponential and logarithmic functions, definition of trigonometric functions using the unit circle; graphs of the trigonometric functions; development and use of identifies; right triangle trigonometry; Law of Sines; Law of Cosines; complex numbers including trigonometric form; theory of equations; theory and application of matrices and determinants; inverse functions.

MAT 1730.....4 Credits Calculus I

Prerequisite: MAT 1630 (or equivalent college transfer course) with a "C" or better within the last three years, or MAT 1540 and MAT 1560 (or equivalent college transfer courses) with a "C" or better within the last three years, or COMPASS math placement test results appropriate for this course within the last two years.

General Education Attributes3, 7

Limits; continuity; concept of the derivative; differentiation of algebraic and transcendental functions; applications of the derivative; antidifferentiation; the indefinite integral; the definite integral; the Fundamental Theorem of Calculus; numerical integration; integration involving logarithmic functions; some applications of the integral. Some of the course concepts will be explored and/or enhanced with current technology.

MAT 17404 Credits Calculus II

Prerequisite: MAT 1730 (or equivalent college transfer course) with "C" or better.

Integrals involving inverse trigonometric functions; hyperbolic functions; an introduction to differential equations; applications of the definite integral; techniques of integration; limits of indeterminate forms; improper integrals; two-dimensional analytic geometry using polar coordinates and parametric equations; infinite series. Some of the course concepts will be explored and/or enhanced with current technology.

MAT 25304 Credits Mathematics for Elementary Teachers I

Prerequisite: MAT 1150 (or equivalent college transfer course) with a "C" or better within the last three years or COMPASS math placement test results appropriate for this course within the last two years.

General Education Attributes1, 2, 3

Throughout this course students will be introduced to the National Council of Teachers of Mathematics (NCTM) Standards and will participate in their implementation. Students will work in collaborative problem solving groups, make presentations to the class, learn and teach a math game, work with manipulatives, observe an elementary school classroom and share ideas with the purpose of developing philosophy and attitude as well as improving speaking, writing, thinking and computational skills. Math content includes elementary set theory; basic algorithms of arithmetic including operations using whole numbers, integers, fractions, decimals and percents; the binary number system and other non base 10 systems; elementary number theory; logic; problem solving techniques; student usage of calculators, computers and other technology.

MAT 2540......4 Credits Mathematics for Elementary Teachers II

Prerequisite: MAT 2530 (or equivalent transfer course) within the last three years with "C" or better.

Course topics will be developed with the use of problem solving strategies, manipulatives, technology and collaborative learning in conjunction with NCTM and AMATYC standards. Topics include solving equations and inequalities, graphs and equations of functions, elementary probability and statistics, informal geometry (including symmetry and transformation, similarity and congruence, area, perimeter and volume) and systems of measurement. Topics will be taught with emphasis on effective teaching methodology. Students will be encouraged to share ideas and make presentations to the class, develop philosophy and attitude and improve their speaking, writing and thinking about mathematics.

MAT 2740......4 Credits

Prerequisite: MAT 1740, (or equivalent college transfer course) with "C" or better.

Three-dimensional analytic geometry and vectors; multi-variable functions; partial differentiation with applications; multiple integrals and applications; cylindrical coordinates; vector calculus. Some of the course concepts will be explored and/or enhanced with current technology.

MAT 2810......4 Credits Differential Equations

Prerequisite: MAT 1740 (or equivalent college transfer course) with "C" or better.

This is a first course in ordinary differential equations. It includes solution of principal types of first order differential equations with applications, solution of higher order linear equations by undetermined coefficients and by variation of parameters, solution by using infinite power series, solution of linear equations by Laplace Transforms, matrix solution of systems of linear differential equations, and solution and applications of higher order differential equations.

MAT 2880.....4 Credits

Prerequisite: MAT 1740, (or equivalent college transfer course) with "C" or better.

The topics covered are systems of linear equations matrix operations and properties of matrices, vedor spaces (subspaces of Rn linear transformations) determinants, Eigenvectors and Eigenvalues diagonalization and inner products. Although not required, MAT 2740 is recommended before enrolling in this course.

(MDA) MEDICAL ASSISTING

MDA 10514 Credits Medical Assisting - Administrative Procedures

This course is designed to acquaint the student with the administrative requirements of the medical facility. The course will provide instruction in the following: medical receptionist skills, HIPAA Regulations, human relations, medical secretarial skills, bookkeeping methods, and management techniques.

MDA 1053 1 Credit Medical Office Software Applications

This course provides students with medical office application skills utilizing a medical office software program. Students will integrate various communication and data entry skills to perform tasks efficiently in the administrative area of a medical office as they prepare for patient billing. Basic keyboard knowledge is necessary as the students will be required to complete computerbased assignments.

MDA 1055 1 Credit Introduction to Medical Office Transcription

Pre or Corequisite: CIS 1000 or CIS 1050 and MED 1103, or consent of instructor.

The students will be introduced to the transcription area of a physician's office. Students will utilize and apply their knowledge in medical terminology and word processing skills. The students will use keyboarding skills as they complete computerbased assignments.

MDA 11403 Credits Medical Assisting Clinical Procedures I

This course is designed to acquaint the student with the duties and responsibilities in the clinical area of a medical facility. The student will be instructed in the following: assisting the doctor, assessing vital signs, sterilization procedures, minor surgery, medical specialties, physiotherapy and diet therapy. Course/lab fees.

B. Syllabus Review

B. Syllabus Review

SUMMARY

Mandatory Items: A review of the Medical Assisting syllabi has been concluded. Upon completion it was determined that all MDA syllabi are in compliance with OCC required criteria.

Recommended Items: All syllabi contained the pertinent recommended items.

Optional Items:

Semester Meeting Times & Room – not present in the syllabi
Teaching/Learning Strategies – present in some syllabi
Applicable Forms Pertinent to Course – none are needed
Reference to Student Policies in OCC Catalog – reference to MDA Student Handbook policies in some syllabi
Policy on Use of Computing Resources – present where pertinent
Description of Required Computer Skills – present where pertinent

- The MDA department will be adding an additional reference to OCC's Student Policies within all syllabi.
- The MDA department will also be adding statements to all syllabi regarding teaching/learning strategies.

C. Enrollment Trends and Student Retention

C. Enrollment Trends and Student Retention

SUMMARY

In regards to enrollment trends and student retention the Office of Assessment and Effectiveness reported the following:

- As a sign of strength, the overall composite program dashboard score for Medical Assisting has steadily increased over the last three years. Moreover, when compared against all other curriculum tracked in the program dashboard, Medical Assisting ranked 7th out of 99.
- In large part the composite score is being positively impacted by the number of completed sections, increasing number of credit hours, the percent of minority students in the program, and the relatively high number of students successfully completing MDA courses.
- Over the past three years the number of active sections has increased, while
 the percent of canceled sections has decreased. In 2005-06, 90% of MDA
 sections were completed compared to the college-wide average of 87%. This
 trend also coincides with a Sharpe increase in credit hours. During 2005-06
 MDA's credit hour trend ratio ranked second highest among all 99 curriculum
 tracked in the program dashboard.
- Over the last three years, the percent of minority students in the program has remained in line with the college-wide average, with approximately 30% of MDA students being minority, compared to 28% for the college.
- Medical Assisting students enjoy a high course completion rate and far exceeds the college-wide average. In 2005-06, the course completion rate stood at 82%, well above the college rate of 68%.
- A further sign of the current overall strength of the MDA program is that all seven program dashboard measures met or exceeded their college benchmarks.
- Increasing demand for medical assisting courses is evident in the rapid growth in credit hours. Most noteworthy is the large increase which occurred between 2002-03 and 2003-04, jumping from 769 to 1,492 credit hours. This

94% increase over one year is in large part attributed to the implementation of program planning/marketing recommendations. Mainly, repackaging the existing courses, while maintaining their high quality, and promoting the program to specific targeted populations. Furthermore, the sustained benefit of program planning/marketing efforts is evident in a 280% increase in credit hours over the past five years (2001-02 to 2006-07)

- In terms of awarding associate degrees, MDA has averaged 3.7 degrees per year over the last ten years, with the average declining to 2.8 degrees over the last five years. Additionally, over the last ten years an average of 3.2 certificates per year have been awarded, while over the last five years this average has risen slightly to 3.4 per year.
- However, with the recent establishment of the five certificates of achievement, there has been a positive impact on the number of completions. Medical Insurance Coding and Billing and Phlebotomy have experienced the largest demand and have averaged 14 and 9 certificates of achievement per year, respectively, over the last three years. These two certificates are believed to be more marketable to a wider variety of healthcare settings and may explain the higher number of awards than the other three certificates of achievement.
- In terms of programs granting associate degrees, Medical Assisting was ranked the 39th highest among all OCC curriculum during 2005-06. Also in that same year, the certificates of achievement associated with the program were quite successful in their ranking. Of all certificates/certificates of achievement awarded at OCC, Medical Insurance and Billing was ranked 3rd, Phlebotomy was ranked 5th, Medical Assisting was ranked 9th, Medical Office Clinical Procedures was ranked 13th, and Medical Office Administrative Procedures and Ophthalmic Assisting both were tied at 16th.

The Medical Assisting Department noticed a very positive response regarding enrollment in all Medical Assisting programs since working together with Institutional Research and the marketing of the new programs.

- The Medical Assisting Department's goal will be to maintain the above mentioned statistics as we enter into a potential downward enrollment trend in Michigan.
- While the Medical Assisting One-year Certificate program is the accredited program through the AAMA/CAAHEP, and provides all skills necessary for entry-level employment; the Associate degree is highly recommend to all students.

D. Discipline/Program Needs and Resources

D. Discipline/Program Needs and Resources

SUMMARY

What recourses or services does your Discipline/Program need?

This year the Medical Assisting Department was granted an additional full-time position. This position was greatly needed and will not only assist in quality instruction, but; will reduce the amount of time spent by the coordinator in hiring, and orientating a large part-time instructor base within the department.

Staff development activities are many and varied for the medical assisting instructors. The instructors are Certified Medical Assistants, a RN, a Certified Medical Coder, a Registered Cardiovascular Ultrasound Technician, and a Certified EKG Technician. All of the instructors must complete continuing education hours to stay current in their area of expertise. This is also mandated by CAAHEP to keep accreditation of the program, and all instructors are in compliance. Many of the instructors also take advantage of OCC's PDTC opportunities.

The comments response from adjunct faculty regarding students in the program indicated there is concern regarding the readiness for college in the student's English, math, and study skills. As far as the English and math skills, we realize that OCC at this time does not require those students who demonstrate need to enroll in remedial courses, before taking any program courses.

The ophthalmic instructor stated that she would like the ophthalmic courses taught more than once a year, since these are the only courses taught in this area. We had discussion regarding enrollment requirements of 15 students to make a course happen. Until this winter semester the course had barely met that requirement. If a need arises in the future the department would look into a second offering of the two ophthalmic courses.

What curriculum revisions or development does your Discipline/Program see as beneficial to instruction?

The Medical Assisting Department follows the Role Delineation Chart of Medical Assisting Competencies for a CAAHEP accredited program distributed by the American Association of Medical Assistants. The department must address enrollment, attrition, completion rate of all competencies (which must be 100%), the number of graduates, graduate satisfaction, and employer satisfaction in a comprehensive annual assessment of the program. At this time the program is in compliance and meets all criteria.

CRC PART II – CORE REVIEW MEDICAL ASSISTING

E. Input From Internal and External Community

CRC

PART II – PROGRAM REVIEW AND PROGRAM REVIEW OF OCCUPATIONAL **EVALUATION (PROE)**

E. Input from internal and external community

SUMMARY

Data response for faculty, students, and advisory committee

Advisory Perceptions of Occupational Analysis

The Advisory committee members were surveyed using the Program Personnel Resource Survey instrument developed by the AAMA. The available responses to the questions were Strongly Agree, Agree, Neutral, Disagree, and Strongly Disagree. The results were as follows:

> Integration of PROE Data Collection regarding Advisory Committee/Industry Perceptions of Occupational Programs and the AAMA Program Personnel Resource Survey

The AAMA "Program Personnel Resource Survey" was used to survey the Medical Assisting Advisory Committee in Spring of 2007. We found the form to be unwieldy and confusing. The form has since been discontinued by the AAMA and a new one has not as yet been developed. Since the committee had been surveyed prior, the AAMA results (in green) have been assigned to similar areas from the PROE (in black)

1. The program at Oakland Community College is meeting the expectations of the advisory committee.

"Faculty Require annual review of goals and learning domains by the Advisory Committee."

86% (6/7) strongly agree 14% (1/7) generally agree

"Please rate the OVERALL quality of the resources supporting the program"

43% (4/7) strongly agree 14% (1/7) generally agree [43% (3/7) did not respond – possibly due to form format]

2. The courses offered are preparing the students for the workforce.

"Faculty identify and respond to changes in the needs and/or expectations of its communities of interest." 86% (6/7) strongly agree 14% (1/7) generally agree

Externship Supervisors from Advisory Committee:

"Students are adequately prepared to perform scheduled exercises in the externship setting."

100% (3/3) strongly agree

"Externship activity is sequential to laboratory and didactic instruction." 100% (3/3) strongly agree

"Students are prepared to behave in a professional manner in the externship setting."
100% (3/3) strongly agree

3. The advisory committee is informed about the program.

"Faculty keep the Advisory Committee informed of program status." 86% (6/7) strongly agree 14% (1/7) generally agree

Externship Supervisors from Advisory Committee: "Externship instructors feel adequately prepared for each group of students." 100% (3/3) strongly agree

4. The advisory committee has substantial input into decision-making within the program.

"Faculty foster positive relations with externship affiliates." 100% (7/7) strongly agree

"Medical Advisor(s) participate(s) in curriculum design modification to ensure appropriate scope and accuracy of medical content." 57% (4/7) strongly agree 14% (1/7) generally agree 30% (2/7) NA

5. The advisor committee is satisfied with the direction of the program.

"Faculty identify and respond to changes in the needs and/or expectations of its communities of interest."

86% (6/7) strongly agree 14% (1/7) generally agree

Handwritten Comments:

"Based on my experiences with interns/externs from various other training/educational sources, the preparedness of OCC MA students far exceeds those who have been at my clinical site."

"This is the best run medical assistant program I work with by far."

Faculty perceptions of the Occupational Analysis

The PROE was distributed to nine faculty members. The survey gathered feedback from the faculty on issues such as the courses offered in the program, faculty satisfaction with student preparation for the program and the quality of instruction. The items were rated 1 (strongly disagree), 2 (disagree), 3 (neutral), 4 (agree), and 5 (strongly agree). The results were positive and included on the following pages.

Student perceptions of the Occupational Analysis

The PROE was distributed to two entering classes of students. The survey gathered feedback from the students on issues such as the program of study meets my expectations, satisfaction with the quality of instructors, and instructors make the course subject matter interesting. The items were rated 1 (strongly disagree), 2 (disagree), 3 (neutral), 4 (agree), and 5 (strongly agree).

The results were positive and included on the following pages.

An area of concern in the student response was the difficulty of getting into medical assisting classes. Priority registration does not help students in the One-year Certificate in Medical Assisting, nor any of the Certificates of Achievement. In fact, it hinders the registration for MDA students. The seats are taken by students waiting to get into other health programs who have their pre-req courses (credits) completed.

Due to this difficulty the department held seats for Winter Semester to insure those that needed to graduate this June could do so. After a comprehensive review all needs have been met.

There were a few comments regarding lab anxiety. This survey was conducted in the first few weeks of students entering into the program when they first feel so overwhelmed. These questions would be a better answered near the end of the semester.



MEDICAL ASSISTING STUDENT EVALUATION FALL 2007

Prepared for:
Letyna Roberts
Manager of State and Federal Programs

Prepared by:
Stephanie Wren
Research Analyst
Office of Institutional Research
(248) 232-4528
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Purpose

The purpose of the study was to compile the data for a summary report of the Medical Assisting program for the PROE/Curriculum Review process. The final results will be forwarded to Letyna Roberts, Manager of State and Federal Programs, for distribution.

Methodology

Survey responses were collected from 38 students. The survey gathered feedback from the students on issues such as the courses offered in the program, student satisfaction with the program, and the quality of instruction. The items were rated 1 (strongly disagree), 2 (disagree), 3 (neutral), 4 (agree), and 5 (strongly agree). Mean responses for each item were calculated and the results are presented below.

Results

	Question	Mean
1	My program of study at Oakland Community College is meeting my expectations.	4
2	The courses offered in my program of study are preparing me for the workforce.	5
3	I would like to change my current program of study because of academic reasons.	. 4
4	I would like to attend another institution because of dissatisfaction with my current program of study.	4
5	I am satisfied with the quality of instructors in my program of study.	5
6	I feel that the instructors are knowledgeable about the course subject matter.	5
7	I am satisfied with the course offerings in my current program of study at Oakland Community College.	4
8	My instructors help me to understand how useful my program of study can be in the real-world.	5
9	My instructors make the course subject matter seem interesting.	5
10	I am infomed about what is happening in my program.	4
11	I think the department is committed to student success.	5
12	I am satisfied with my program of study	Δ

- The students are expressing agreement to strong agreement with the items measured on the guestionnaire.
- The student responses typically ranged between agree and strongly agree.
- Question three is indicating that the students disagree with changing their current program of study due to academic reasons.
- Question four is similar to question three in that the students are indicating that they disagree with attending another institution because of dissatisfaction with my current program of study.

If there is one thing you could change about the program, then explain what it is and how it would enhance the program:

Open-Ended Responses:

- 1. To use grades instead of date of prerequisites' completion for getting enrolled in different programs (for example, Nursing program)
- 2. To offer more class openings, have more teachers so students don't have to wait longer and allow more students to get in and get out of the program more efficient(ly).
- 3. Some of the courses should be offered more (Phlebotomy). Some classes are needed and should be offered all year.
- 4. OK
- 5. Offering classes more than once a year; if it was offered at least twice I would be able to have a greater chance of getting in that particular class.
- 6. Offer all classes later in the day, not just one time offering.
- 7. Nothing as of yet
- 8. Nothing as of yet
- 9. More time to do hand[s]-on things, as we do in the lab
- 10. More opportunities to get into classes that are need[ed]
- 11. More openings in classes that are required
- 12. More individualized instruction in labs; it feels like there are too many people in the lab at one time for everyone to receive adequate instruction. I think it would be better to only have part of the class attend labs on given dates to lessen the congestion.
- 13.I would like more options as to when classes are offered, to allow for a more timely completion of the program.
- 14.I would like it if they offer(ed) more of the classes than they do. It is very difficult to get into classes. I am trying to get a job tomorrow, and when you only offer certain classes only twice, it makes it hard to meet goals. Thank you.

Open-Ended Responses:

- 15. I would like all classes to be offered all year so students who have to go part-time can finish in a timely manner, and so classes wouldn't be so hard to get into.
- 16. I would change the rate of speed we go through the lab evaluations. I think we need more practice time on areas before we move on, or introduce the next set of things to learn. It is [too] early in the program to evaluate.
- 17.1 would add more classes in order to accommodate everyone.
- 18.I wish it was easier to get into classes. They fill up so quickly.
- 19.1 will prefer more lab practice.
- 20.1 believe that a class on Medical Math would be beneficial to the students. I took a Medical Math class at my previous school and it was a great help to me in my courses.
- 21. Have more classes so that students would be able to get into classes that they need to complete.
- 22. Classes fill up and it's difficult to get into the courses you need. I realize it could be a shortage of instructors. If a course is critical to graduation, perhaps an effort could be made to open up another class.
- 23. Add more classes very hard to get into specific courses needed to graduate.
- 24. Add additional weight scales in class.

F. Comparable Courses/Programs and Trends

CRC

PART II – PROGRAM REVIEW AND PROGRAM REVIEW OF OCCUPATIONAL EVALUATION (PROE)

F. Comparable courses/Programs and trends

SUMMARY

OCC Medical Assisting students can transfer all credits into the following areas: Sienna Heights –Bachelors in Allied Health Science
Davenport University – Bachelors in Allied Health Science
Central University – Bachelors in Community Development and Health Care
Administration

According to the Office of Assessment and Effectiveness occupational projections for Medical Assisting include:

Twelve occupations related to Medical Assisting were identified.

General forecast is positive for employment for the next five years (2006-11).

It is estimated that during this time period approximately 3,400 new jobs are expected. It is also estimated that 5,800 openings will occur resulting from the need to replace current workers.

The most recent survey analysis from the Institutional Research Department stated the following:

All responses from graduates of 04/05 regarding preparation for employment in the competencies according to the American Association's Role Delineation were positive.

The most recent survey of employers from that same graduate class produced positive responses for employee preparation according to the same AAMA Role Delineation Chart.

- After review the Medical Assisting Department's goal is to maintain a high response rate from graduates and employers regarding the program's role in preparing the graduate for employment.
- Some students do continue for a Bachelor Degree.
- Some students enter into the program as the first requirement of clinical hours as they pursue their interest in becoming a Physician's Assistant.

G. Outcomes Assessment

CRC

PART II – PROGRAM REVIEW AND PROGRAM REVIEW OF OCCUPATIONAL EVALUATION (PROE)

G. Outcomes Assessment

SUMMARY

The most recent Program Assessment Plan was November 05/06. This year's review is in process. These are the 05/06 results.

Benchmark 1:

Annual review by program faculty will show 80% of students will demonstrate proficiency in each MDA course in both theory and skill with a grade of 78% or higher.

Assessment Method 1:

Written and practical exams are used to demonstrate competency in each area as recommended by the AAMAE's Medical Assistant Role Delineation. Mid-terms, Finals and lab evaluations are utilized. Under direct supervision of the Instructor or Clinical Instructor, students demonstrate competency in clinical skills as designated by the AAMA Medical Assistant Role Delineation.

Timeline 1: November 06

Result 1: All courses were measured with only one class falling below the benchmark of 80% of the students passing above the 78% benchmark. MDA 1170, Medical Assisting Laboratory Procedures measured a 71% passing rate.

Comment 1: Textbook, teaching and assessment methods were reevaluated. There will be a textbook change starting with the next rotation of MDA 1170.

Data Provider 1: faculty

Benchmark 2:

Annual review will show 80% of the graduates will pass the AAMA certification exam at the proficiency level of \geq 500 as determined by the AAMA.

Assessment Method 2: AAMA national CMA certification exam results.

Timeline 2: November 06

Result 2: There were 11 June graduates. All grads took the national exam to become a CMA and passed at the proficiency level of 500 or above.

Identify and respond to issues of confidentiality Perform within legal and ethical boundaries Establish and maintain the medical record Document appropriately Demonstrate knowledge of federal and state health legislation and regulations

Comment 1: No change at this time.

Data Provider 1: faculty

Learning Outcomes #3

Graduates will competently perform administrative, clinical and transdiciplinary skills as outlined by the AAMA Assistant Role Delineation.

Benchmark 1:

Annual review by the program faculty will show 80% of graduates and employers surveyed will report satisfactory or better, on a scale of 1-5 (very good to very poor) according to the AAMA Medical Assistant Role Delineations, regarding, employability preparation and education received.

Assessment Method 1: Graduate and employer survey. Number of graduates will determine if this is appropriate method.

Timeline 1: November 06

Result 1: The most recent survey of the six graduates from 04/05 resulted in three responses (50% response rate). All responses according to preparation for employment in the competencies according to the AAMA Role Delineation were positive.

The most recent survey of employers from that same graduate class produced two responses. All areas were positive for employee preparation according to the AAMA competencies from the Role Delineation Chart.

Comment 1: None at this time.

Data Provider 1: IR Office

• One class from Benchmark #1 in the MDA program fell below the outcome of: "Annual review by program faculty will show 80% of students will demonstrate proficiency in each MDA course in both theory and skill with a grade of 78% or higher. We have changed textbooks and hope to see an improvement.

- Overall it is the department view that more students are unprepared for the rigors
 of college work for numerous reasons (remedial levels in math, reading and
 writing, time management, study skills, anxiety levels, ESL, etc.). These issues
 are outside of the department's control. At this time, we are now including in two
 entry level courses lectures on study skills to become a successful student.
 Unfortunately, this cuts into the valuable time needed to teach curriculum theory
 and skills.
- On a positive note the June graduate scores for the national exam were just received. Once again OCC grads performed at the 99+ percentile in the nation with a cut score of 647 and the top of the national score being 630.



Oakland Community College

Oakland Community College

Medical Assisting Program Accreditation Documentation



The Commission on Accreditation of Allied Health Education Programs certifies that the

Medical Assistant (Associate Degree and Certificate) Program

Oakland Community College Waterford, Michigan

has completed an accreditation review and is judged to be in compliance with the nationally established standards

this 18th day of October 2002.

Chair, Committee on Accreditation



AMERICAN ASSOCIATION OF MEDICAL ASSISTANTS ENDOWMENT

20 NORTH WACKER DR., STE. 1575 CHICAGO, ILLINOIS 60606 (312) 899-1500

February 22, 2006

Karen A. Kittle, CMA, AAS Medical Assistant Program Director Oakland Community College 7350 Cooley Lake Road HL HH206 Waterford, MI 48327-4187

Dear Ms. Kittle:

The Curriculum Review Board of the American Association of Medical Assistants Endowment (CRB-AAMAE) is implementing the *2003 Standards and Guidelines for Medical Assisting Educational Programs*. As a part of this implementation, the maximum time between comprehensive reviews (formerly called site visits) has been increased to ten (10) years.

Based on this change, the next comprehensive review for the Oakland Community College medical assisting program will now occur no later than April 2012. The CRB-AAMAE does reserve the right to schedule a comprehensive review prior to that date, if the program's outcomes are not meeting the established thresholds.

Please update your files to reflect this change.

Sincerely,

July a. Julahl, MS, En, CLAR

Judy A. Jondahl, MS, RN, CLNC Director of Accreditation Deputy Assistant Executive Director

cc: Gordon May, MA, President
Nadia Boulos, MSN, PhD, Dean of Nursing and Allied Health
Cathy Kelley-Arney, CMA, MLT, BSHS, CRB-AAMAE Chair
Robin Snider-Flohr, EdD, RN, CMA, CRB-AAMAE Co-Vice Chair
William W. Goding, MEd, RRT, CRB-AAMAE Co-Vice Chair
Donald A. Balasa, JD, MBA, Executive Director and Legal Counsel



Oakland Community College

Medical Assisting Program Accreditation Annual Review Status



AMERICAN ASSOCIATION OF MEDICAL ASSISTANTS ENDOWMENT

20 NORTH WACKER DR., STE. 1575 1-40 AGO ILUNOIS 60606 -3191899-1500

February 26, 2007

Karen A. Kittle, CMA, AAS Medical Assisting Program Director Oakland Community College 7350 Cooley Lake Rd Waterford, MI 48327-3864

Dear Ms. Kittle:

The Curriculum Review Board of the American Association of Medical Assistants Endowment (CRB-AAMAE) has reviewed the outcome results on your 2006 Annual Report Form (ARF) and congratulates Oakland Community College Certificate Medical Assisting Program on meeting the retention, placement, exam success, graduate and employer outcome thresholds. While the exam participation threshold is monitored with no adverse action resulting from failure to meet this outcome, the CRB-AAMAE noted that the Oakland Community College Certificate Medical Assisting Program met this outcome.

As the Oakland Community College Certificate Medical Assisting Program has met all of the required outcomes, you are not required to provide any further information for this reporting period. You will be receiving your 2007 Annual Report later this year, based on the reporting time frame you select. The opportunity to make this selection will be sent via email with a request for updating the program's demographic information in March 2007.

Again, congratulations for your continued efforts in producing quality medical assistants as demonstrated in your meeting all of the outcome thresholds.

Sincerely.

Joyce E. Garibay, BA, CMA

Joyce E. Saribaya

CRB-AAMAE Chair

cc: Gordon May, PhD, President

Nadia Boulos, MSN PhD, Dean of Nursing & Allied Health

Eugenia M. Fulcher, BSN, EdD, RN, CMA, CRB-AAMAE Vice Chair

Judy A. Jondahl, MS, RN, CLNC, Director of Accreditation

Donald A. Balasa, JD, MBA, Executive Director and Legal Counsel





Oakland Community College

Medical Assisting Program Curriculum Review 2007

Faculty Sign-Off Form*

For Curriculum Review of Program:

I approve the Curriculum Review Report as written by the Faculty Program Review Coordinator.

Comments: (Attach additional sheets if necessary)

Gayle Mazzocco hum & Mazzocco

^{*} This form is to be copied by and distributed to all faculty within the Program to ensure awareness and participation.

If there is one thing you would like to change about the program, then explain what it is and how it would enhance the program?

Open-Ended Responses

- 1. The program serves the community well. The fact that OCC has an open door policy allows students to enter who are not academically ready. I know that the college is attempting to address this. I would like to see all students who enter OCC, regardless of program, be required to meet minimum competencies in Math and English.
- 2. Pertaining to question a: I think students should [take] a Study Skills class. Question 13 I would like to pick all options A, B, C, & D.
- 3. OCC has the only program offered (not online) for Ophthalmology.

 Because of this, I recommend offering Ophthalmic Procedures I & II, Fall
 and Winter Semesters. If enrollment increased acquiring new equipment

Results

	Question	Mear
1	The programof study in which I teach at Oakland Community College is meeting my expectatic	5
2	The courses offered in the program are preparing the students for the workforce.	5
3	The program can be more challenging academically for the students.	3
4	The program can be more competitive with other institutions that offer similar programs.	5
5	I am satisfied with the quality of instruction provided to the students in this program.	5
6	My fellow faculty members in the program are knowledgeable about the course subject matter.	5
7	I am satisfied with the course offerings in this program.	5
8	I feel that the program has a focus on real world applications.	5
9	I feel that the students are prepared for the rigors of the program.	4
10	I am informed about what is happening in this program.	5
11	Opportunities are available for me to make suggestions for improvements in this program.	5
12	I think the department has a commitment to student success in the program.	5

- The average responses of 4 and 5 are indicating that the faculty is in high agreement with the items assessed in the questionnaire.
- Question three indicates that the faculty is somewhat neutral to the program being more challenging academically for the students.
- Where as question four indicates that the faculty strongly disagrees that the program can be more competitive with other institutions that offer similar programs.

Purpose

The purpose of the study was to compile the data for a summary report of the Medical Assisting program for the PROE/Curriculum Review process. The final results will be forwarded to Letyna Roberts, Manager of State and Federal Programs, for distribution.

Methodology

Survey responses were collected from nine faculty members. The survey gathered feedback from the faculty on issues such as the courses offered in the program, faculty satisfaction with student preparation for the program, and the quality of instruction. The items were rated 1 (strongly disagree), 2 (disagree), 3 (neutral), 4 (agree), and 5 (strongly agree). Mean responses for each item were calculated and the results are presented below.

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MEDICAL ASSISTING FACULTY EVALUATION FALL 2007

Prepared for:
Letyna Roberts
Manager of State and Federal Programs

Prepared by:
Stephanie Wren
Research Analyst
Office of Institutional Research
(248) 232-4528
October 2007

Major Highlights

Program Dashboard

Credit Hour Trends

Degree Trends

Occupational Projections

Occupational Skills Analysis

Program Assessment Plan

Program Assessment Results

Program
Planning/Marketing Report
and Recommendations

CRC Recommendations

Tallow ap

Medical Assisting Major Highlights September 2007

Overview

The information contained in this binder represents supporting reports and data associated with the CRC's review of the Medical Assisting program. These reports are intended to provide a historical perspective, as well as an idea of current strengths and future challenges facing the program which may impact short and long term planning.

Major Highlights

- As a sign of strength, the overall composite program dashboard score for Medical Assisting
 has steadily increased over the last three years. Moreover, when compared against all
 other curriculum tracked in the program dashboard, Medical Assisting ranked 7th out of 99.
- In large part the composite score is being positively impacted by the number of completed sections, increasing number of credit hours, the percent of minority students in the program, and the relatively high number of students successfully completing MDA courses.
- Over the past three years the number of active sections has increased, while the percent of canceled sections has decreased. In 2005-06, 90% of MDA sections were completed compared to the college-wide average of 87%. This trend also coincides with a sharp increase in credit hours. During 2005-06 MDA's credit hour trend ratio ranked second highest among all 99 curriculum tracked in the program dashboard.
- Over the last three years, the percent of minority students in the program has remained in line with the college-wide average, with approximately 30% of MDA students being minority, compared to 28% for the college.
- Medical Assisting students enjoy a high course completion rate and far exceeds the collegewide average. In 2005-06, the course completion rate stood at 82%, well above the college rate of 68%.
- A further sign of the current overall strength of the MDA program is that all seven program
 dashboard measures met or exceeded their college benchmarks.
- Increasing demand for medical assisting courses is evident in the rapid growth in credit hours. Most noteworthy is the large increase which occurred between 2002-03 and 2003-04, jumping from 769 to 1,492 credit hours. This 94% increase over one year is in large part attributed to the implementation of program planning/marketing recommendations. Mainly, repackaging the existing courses, while maintaining their high quality, and promoting the program to specific targeted populations. Furthermore, the sustained benefit of program planning/marketing efforts is evident in a 280% increase in credit hours over the past five years (2001-02 to 2006-07)
- In terms of awarding associate degrees, MDA has averaged 3.7 degrees per year over the last ten years, with the average declining to 2.8 degrees over the last five years. Additionally, over the last ten years an average of 3.2 certificates per year have been awarded, while over the last five years this average has risen slightly to 3.4 per year.

Source: OCC, Office of Assessment & Effectiveness

- However, with the recent establishment of the five certificates of achievement, there has been a positive impact on the number of completions. Medical Insurance Coding and Billing and Phlebotomy have experienced the largest demand and have averaged 14 and 9 certificates of achievement per year, respectively, over the last three years. These two certificates are believed to be more marketable to a wider variety of healthcare settings and may explain the higher number of awards than the other three certificates of achievement.
- In terms of programs granting associate degrees, Medical Assisting was ranked the 39th highest among all OCC curriculum during 2005-06. Also in that same year, the certificates of achievement associated with the program were quite successful in their ranking. Of all certificates/certificates of achievement awarded at OCC, Medical Insurance and Billing was ranked 3rd, Phlebotomy was ranked 5th, Medical Assisting was ranked 9th, Medical Office Clinical Procedures was ranked 13th, and Medical Office Administrative Procedures and Ophthalmic Assisting both were tied at 16th.
- In terms of identifying current as well as future employment opportunities, twelve occupations related to Medical Assisting were identified. Generally, the forecast for these occupations are positive over the next five years (2006-11). It is estimated that during this time period approximately 3,400 new jobs are expected, while over 5,800 openings will occur resulting from the need to replace current workers.
- The program assessment plan established by Medical Assisting has three unique Learning
 Outcomes and has one to three Benchmarks per Learning Outcome, which is in accordance
 with the guidelines established by the Student Outcomes Assessment Committee.
 However, improvements could be made by combining two of the benchmarks for the first
 learning outcome and additionally using the same verbiage for the first learning outcome as
 used in the third learning outcome.
- Ideally, there are two direct assessment methods included in the plan, which are student performance on the AAMA certification exam and faculty evaluation on the externships.
 Meanwhile, the assessment plan has two indirect assessment methods, e.g. an employer survey and a graduate survey.
- The program assessment plan could be enhanced by adding one additional learning outcome for the degree program and either a second learning outcome specific to the Ophthalmic option or a benchmark that points specifically to this option. At this point there is no evidence that assessment of this portion of the program is being implemented.
- Between July 2006 and August 2007, 5 of the 12 Benchmarks have been assessed (42%).
 Of those assessed, 4 met their benchmarks while one did not. For the one benchmark that was not met, it was decided that a textbook change would occur starting with the next rotation of the MDA 1170 course.
- Further review/investigation should be undertaken to explore the similarities and differences
 between the Medical Assisting and Medical Transcription programs. Both of these
 programs appear to serve a common segment of the healthcare industry as well as the
 same targeted student populations.

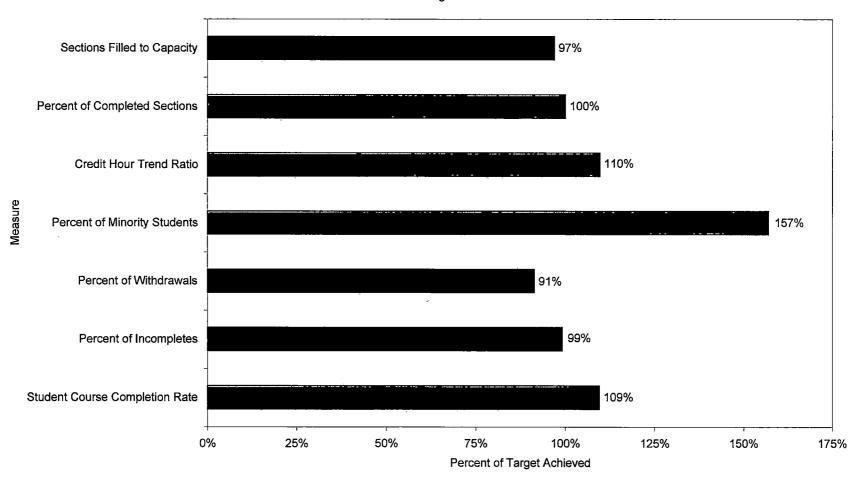
Oakland Community College Program Dashboard

The purpose of the program dashboard is to provide a data driven tool designed for the efficient and objective review of all curriculum offerings. Based on a common set of measures which apply to all programs/disciplines the dashboard facilitates the systematic identification of well performing as well as ailing curriculum so early intervention efforts can be undertaken.

In a rapidly changing economic and competitive environment it is necessary if not imperative to continually review curriculum offerings annually. Dashboard reports are a useful tool for monitoring program performance. In addition, they allow for an integrated approach for collecting, presenting, and monitoring data to meet long and short-term programmatic decision-making needs.

Oakland Community College Percent of Target Achieved 2005-06

Medical Assisting MDA



Source: Office of Assessment and Effectiveness Updated On: 7/17/2007

Oakland Community College Program Dashboard Report 2005-06

Medical Assisting MDA
Dashboard Score: 10.58

Benchmarks						
	Current	Trouble	e Target	Percent of		Weighted
Measures	Score	Score	Score	Target Achieved	Weight	Score
Sections Filled to Capacity	87.2%	75.0%	90.0%	96.9%	18.0%	1.74
Percent of Completed Sections	90.0%	75.0%	90.0%	100.0%	14.2%	1.42
Credit Hour Trend Ratio	1.37	0.71	1.25	109.6%	15.3%	1.68
Percent of Minority Students	29.5%	16.9%	18.8%	156.9%	6.1%	0.96
Percent of Withdrawals	8.7%	15.0%	0.0%	91.3%	12.0%	1.10
Percent of Incompletes	0.9%	3.0%	0.0%	99.1%	7.9%	0.78
Student Course Completion Rate	82.1%	60.0%	75.0%	109.5%	26.5%	2.90

Source: Office of Assessment and Effectiveness

Updated On: 7/17/2007

Program Dashboard Detail Report

Prefix MDA

Title Medical Assisting

	Program		College Wide	
	2005-06	2004-05	2003-04	2005-06
Sections Filled to Capacity	87.2%	81.1%	79.4%	83.2%
Percent of Completed Sections	90.0%	100.0%	80.0%	86.6%
Headcount Trend Ratio	1.43	1.27	1.26	1.02
Credit Hour Trend Ratio	1.37	1.28	1.26	1.02
Percent of Minority Students	29.5%	29.3%	26.9%	27.9%
Percent of Withdrawals	8.7%	13.9%	11.8%	17.8%
Percent of Incompletes	0.9%	0.6%	1.0%	1.6%
Student Course Completion Rate	82.1%	78.8%	80.8%	68.2%
Dashboard Score	10.58	10.27	9.91	

Sections Filled to Capacity

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Total Students	836	505	510
Total Capacity	959	623	642
Sections Filled To Capacity	87.2%	81.1%	79.4%

Definition:

The percent of all available seats which are filled on the terms official census date. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: One-tenth-day of each term.

Methodology:

Total number of sections (credit courses only) that are filled to their designated capacity e.g. allocated seats divided by the total number of available seats in all sections throughout the academic year (July 1 through June 30). In other words, how many sections are filled to their capacity on the sections 1/10 day out of all sections? Include sections that are more than filled / overflowing in calculation.

One-Tenth Day data shows the capacity filled numbers at approximately 3 weeks after the Fall and Winter terms begin; and 1 week after the Summer I and II terms begin. This data will not provide additional enrollment data if the sections begin after the one-tenth day.

While a section may only have a few students enrolled in it the college is able to designate some sections as 'full' so that they are not cancelled (per OCCFA Master Agreement). Therefore some disciplines may show low fill capacity rates, and the college never cancelled the sections or condense the students into fewer sections offering the same course.

Percent of Completed Sections

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Active Sections	36	31	24
Cancelled Sections	4	0	6
Total Sections	40	31	30
Percent of Completed Sections	90.0%	100.0%	80.0%

Definition:

Of all offered sections, the percent of sections that are completed (not cancelled). Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: End of session, after grades are posted.

Methodology:

Annually, the total number of offered credit sections that are completed. Formula = number of completed credit sections divided by the total number of offered credit sections. In other words, the percent of these sections that are not cancelled.

Headcount Trend Ratio

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Headcount Year 1	280	255	296
Headcount Year 2	510	280	255
Headcount Year 3	539	510	280
Headcount Year 4	847	539	510
Headcount Period 1	443	348	277
Headcount Period 2	632	443	348
Headcount Ratio	1.43	1.27	1.26

Definition:

Trend in student headcount based on a three year rolling average. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: One-tenth-day of each term. (Note: this measure is not used in the calculation of the Program Dashboard score since it parallels trends depicted in Credit Hours.)

Methodology:

In order to establish a meaningful enrollment statistic which applies to large as well as small disciplines/programs a "ratio" was calculated based on a three year rolling average of student headcount.

The formula used to calculate this measure involves three simple steps:

- a. Year 1 +Year 2 +Year 3 / 3 =Period 1
- b. Year 2 +Year 3 +Year 4 / 3 =Period 2
- c. Period 2 / Period 1 = Ratio

If the ratio is greater than "1" this means there has been an enrollment increase. On the other hand, if the ratio is less than "1" this translates into an enrollment decline. The larger the number the larger the enrollment increase. Likewise, the lower the number the greater the enrollment decline.

Credit Hour Trend Ratio

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Credit Hour Year 1	797	720	857
Credit Hour Year 2	1,483	797	720
Credit Hour Year 3	1,563	1,483	797
Credit Hour Year 4	2,200	1,563	1,483
Credit Hour Period 1	1,281	1,000	791
Credit Hour Period 2	1,749	1,281	1,000
Credit Hour Ratio	1.37	1.28	1.26

Definition:

Trend in student credit hours based on a three year rolling average. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: One-tenth-day of each term.

Methodology:

In order to establish a meaningful enrollment statistic which applies to large as well as small disciplines/programs a "ratio" was calculated based on a three year rolling average of student credit hours.

The formula used to calculate this measure involves three simple steps:

- a. Year 1 + Year 2 + Year 3 / 3 = Period 1
- b. Year 2 + Year 3 + Year 4 / 3 = Period 2
- c. Period 2 / Period 1 = Ratio

If the ratio is greater than "1" this means there has been an enrollment increase. On the other hand, if the ratio is less than "1" this translates into an enrollment decline. The larger the number the larger the enrollment increase. Likewise, the lower the number the greater the enrollment decline.

Percent of Minority Students

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Minority Students	131	103	94
Total Students	444	352	350
Percent of Minority Students	29.5%	29.3%	26.9%

Definition:

The percent of students who are minority. Minority status is self-reported by the student and includes: African American, Asian, Hispanic, Native American Indian and Other. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: One-tenth-day of each term.

Methodology:

Percentages are based on those students enrolled on the terms official census date (one tenth day) and excludes missing data.

Percent of Withdrawals

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Total Withdrawals	71	69	57
Total Grades	812	496	485
Percent of Withdrawals	8.7%	13.9%	11.8%

Definition:

The percent of students who withdraw from their course after the term begins. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: End of session files, after grades are posted.

Methodology:

Percent of withdrawals is derived by dividing the total number of student initiated withdrawals by the total number of grades and marks awarded throughout the academic year. The Withdrawal-Passing (WP), and Withdrawal-Failing (WF) are considered Withdrawals (W). Meanwhile, calculations exclude: Audit (AU), Not Attended (N), and Not Reported (NR).

Percent of Incompletes

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Total Incompletes	7	3	5
Total Grades	812	496	485
Percent of Incompletes	0.9%	0.6%	1.0%

Definition:

The percent of students who receive an incomplete in their course. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: End of session files, after grades are posted.

Methodology:

Percent of incompletes is derived by dividing the total number of incompletes by the total number of grades and marks awarded throughout the academic year. The Continuous Progress (CP) grade is considered an Incomplete (I). Meanwhile, calculations exclude: Audit (AU), Not Attended (N), and Not Reported (NR).

Student Course Completion Rate

Prefix

MDA

Prefix Title

Medical Assisting

	2005-06	2004-05	2003-04
Successful Grades	667	391	392
Total Student Grades	812	496	485
Student Course Completion Rate	82.1%	78.8%	80.8%

Definition:

The percent of students who successfully complete a course with a grade of "C" or higher. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: End of session files, after grades are posted.

Methodology:

Student success rates are based on end of session data after all grades have been posted. Data includes grades from the entire academic year (Summer II, Fall, Winter, and Summer I). The following grades/marks are excluded from the calculation: Audit (AU), Not Attended (N) and Not Reported (NR).

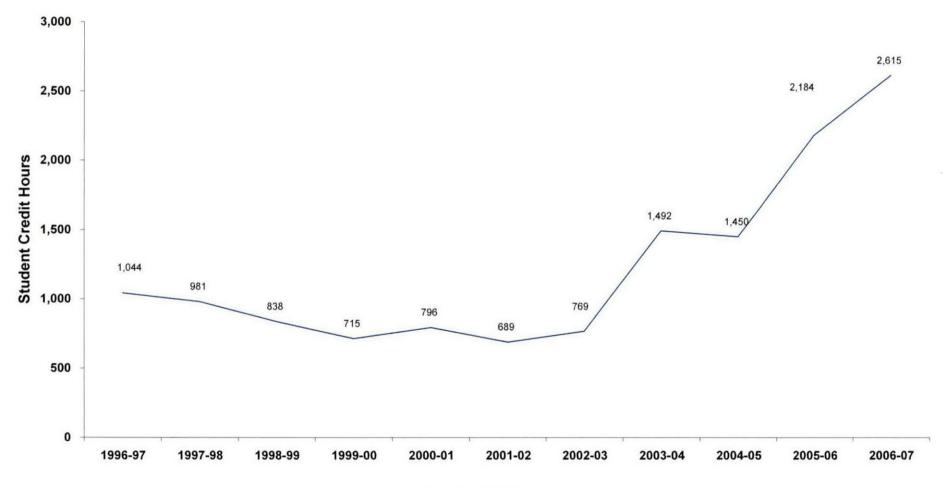


Credit Hour Trends Report Medical Assisting MDA 2006-07

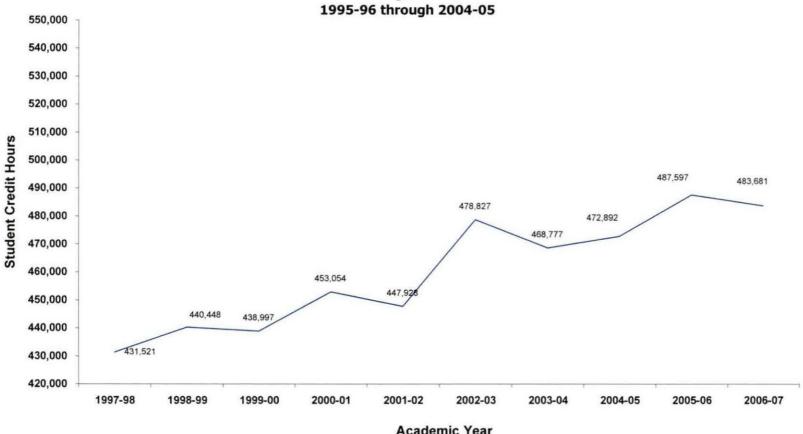
Prepared by:
Oakland Community College
Office of Institutional Research
August 13, 2007

Oakland Community College Ten-Year Trend in Student Credit Hours Medical Assisting 1996-97 through 2006-07

	1996-97 SCH	1997-98 sch	1998-99 sch	1999-00 sch	2000-01 SCH	2001-02 sch	2002-03 sch	2003-04 sch	2004-05 sch	2005-06 sch	2006-07 SCH	5-Year % Change	10-Year % Change
Medical Assisting	1,044	981	838	715	796	689	769	1,492	1,450	2,184	2,615	279.5	150.5
College Wide Totals	443,471	431,521	440,448	438,997	453,054	447,928	478,827	468,777	472,892	487,597	483,681	8.0	9.1



Oakland Community College Ten-Year Trend in Student Credit Hours College-Wide



Acad	emi	c Y	ear

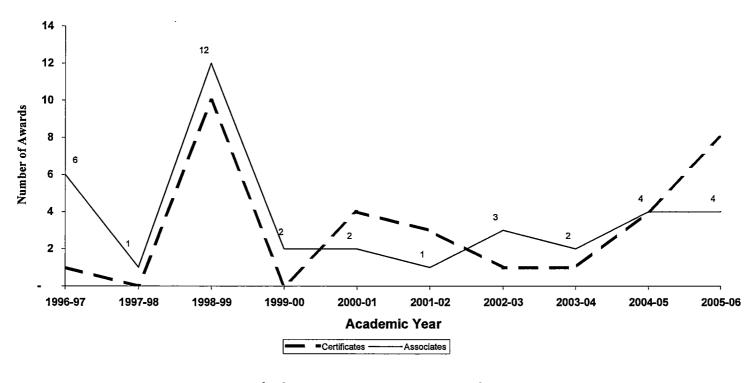
1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
431,521	440,448	438,997	453,054	447,928	478,827	468,777	472,892	487,597	483,681



Degree Trends Report Medical Assisting MDA 2005-06

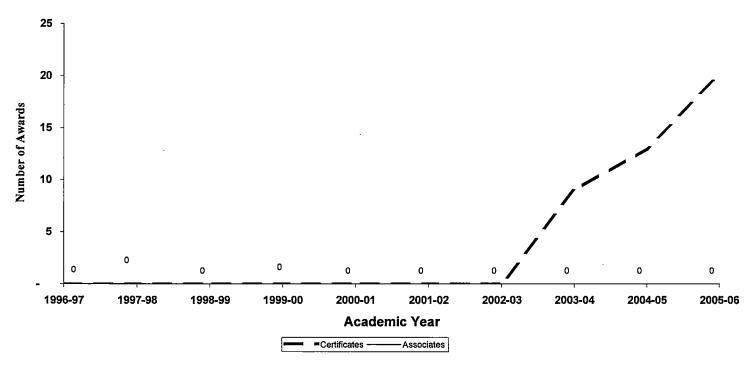
Prepared by:
Oakland Community College
Office of Institutional Research
August 30, 2007

Oakland Community College Associate Degrees and Certificates Awarded Medical Assisting 1996-97 through 2005-06



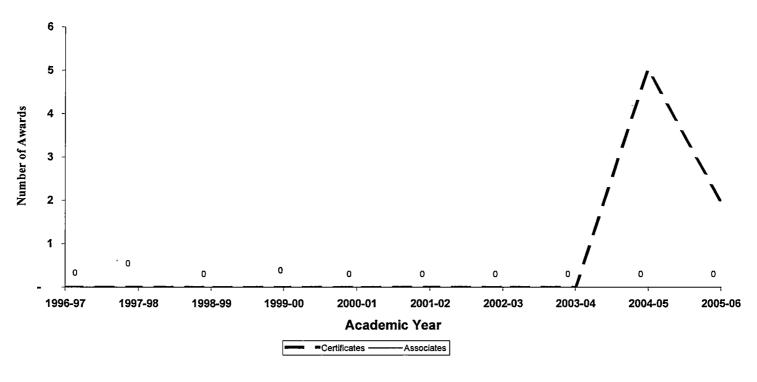
<u>Certificates</u>	<u>Associates</u>
1	6
0	1
10	12
0	2
4	2
3	1
1	3
1	2
4	4
8	4
	1 0 10 0 4 3 1 1

Oakland Community College Associate Degrees and Certificates Awarded Medical Assisting, Medical Insurance Coding & Billing 1996-97 through 2005-06



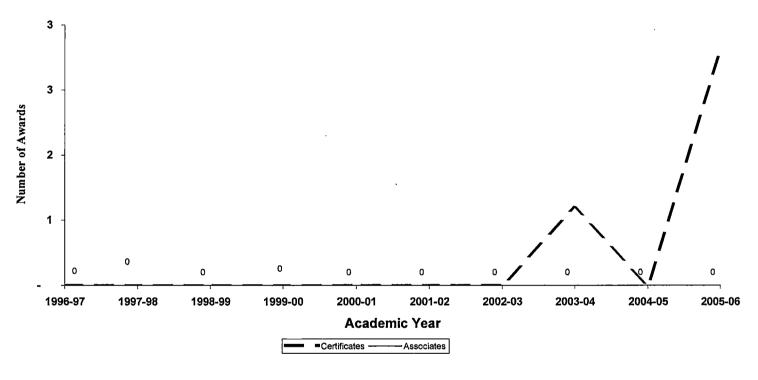
Academic Yr.	<u>Certificates</u>	<u>Associates</u>
1996-97	0	0
1997-98	0	0
1998-99	0	0
1999-00	0	0
2000-01	0	0
2001-02	0	0
2002-03	0	0
2003-04	9	0
2004-05	13	0
2005-06	20	0

Oakland Community College Associate Degrees and Certificates Awarded Medical Assisting: Medical Office Administrative Procedures, C of A 1996-97 through 2005-06



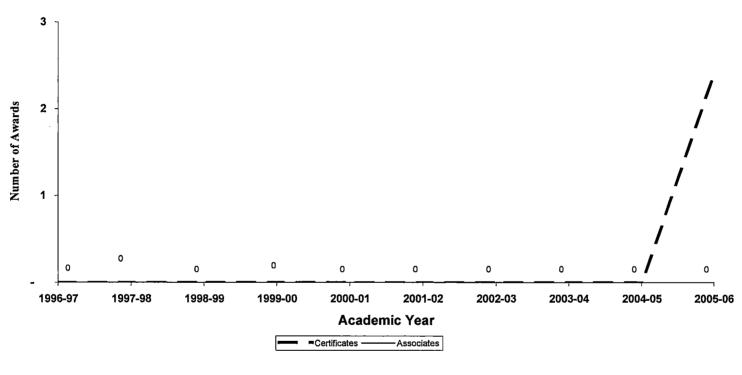
Academic Yr.	<u>Certificates</u>	<u>Associates</u>
1996-97	0	0
1997-98	0	0
1998-99	0	0
1999-00	0	0
2000-01	0	0
2001-02	0	0
2002-03	0	0
2003-04	0	0
2004-05	5	0
2005-06	2	0

Oakland Community College Associate Degrees and Certificates Awarded Medical Assisting, Medical Office Clinical Procedures 1996-97 through 2005-06



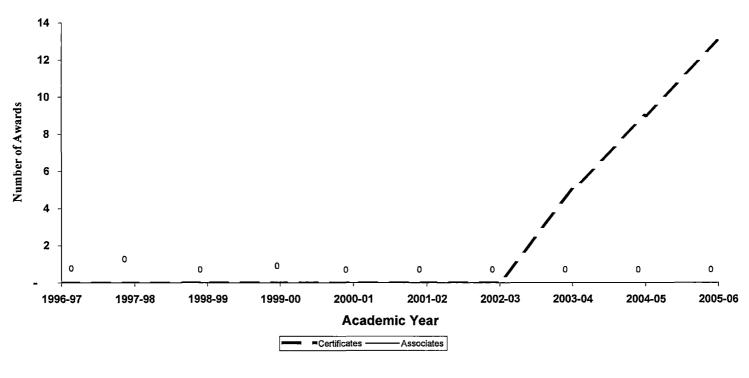
Academic Yr.	<u>Certificates</u>	<u>Associates</u>
1996-97	0	0
1997-98	0	0
1998-99	0	0
1999-00	0	0
2000-01	0	0
2001-02	0	0
2002-03	0	0
2003-04	1	0
2004-05	0	0
2005-06	3	0

Oakland Community College Associate Degrees and Certificates Awarded Medical Assisting, Medical Ophthalmic Assisting 1996-97 through 2005-06



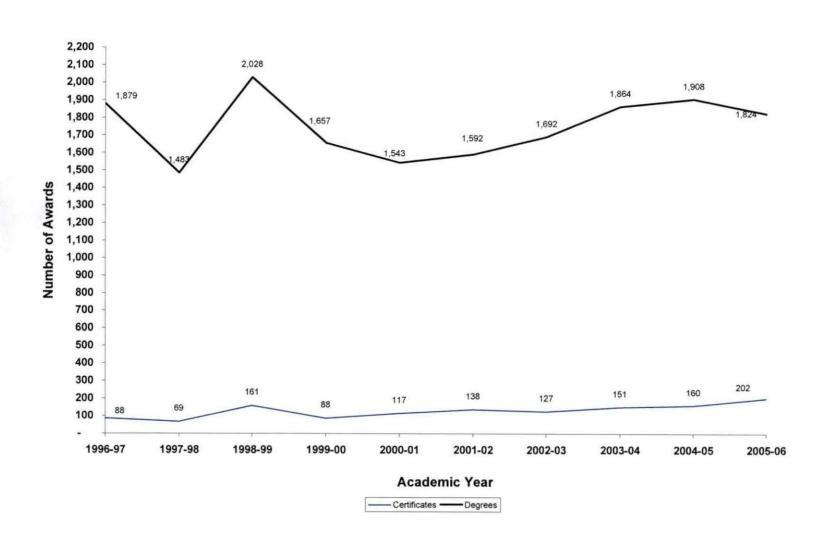
Academic Yr.	<u>Certificates</u>	<u>Associates</u>
1996-97	0	0
1997-98	0	0
1998-99	0	0
1999-00	0	0
2000-01	0	0
2001-02	0	0
2002-03	0	0
2003-04	0	0
2004-05	0	0
2005-06	2	0

Oakland Community College Associate Degrees and Certificates Awarded Medical Assisting, Phlebotomy 1996-97 through 2005-06



Academic Yr.	<u>Certificates</u>	<u>Associates</u>
1996-97	•	0
	0	
1997-98	0	0
1998-99	0	0
1999-00	0	0
2000-01	0	0
2001-02	0	0
2002-03	0	0
2003-04	5	0
2004-05	9	0
2005-06	13	0

Oakland Community College Associate Degrees and Certificates Awarded College-Wide 1996-97 through 2005-06



Occupational Projections (2006 – 2011)

The following projections are for those occupations most closely associated with this program. However, the extent to which specific OCC programs lead to jobs reflected within a given Standard Occupational Code (SOC) is dependent upon the way in which the U.S. Department of Labor groups specific occupations.

Occupational projections are presented at the "Detailed Standard Occupational Code" level according to the U.S. Department of Labor.

Projections are subject to change based on emerging economic, political and social forces.

These projections reflect the four county region of Oakland, Macomb, Livingston and Wayne counties.

Projections are based on data from 24 major data sources, including the U.S. Department of Commerce, Bureau of Labor Statistics (BLS), Internal Revenue Service (IRS), and Census data. To forecast occupational demand at the county level, BLS data are regionalized and adjusted for emerging technological changes, the age of workers by occupation, and other factors affecting occupational demand.

This information was obtained from CCbenefits Inc. Community College Strategic Planner (CCSP).

Data presented in the following tables include:

- Base Year: Current number of jobs in 2006.
- Five Year: Number of projected jobs in 2011.
- New Jobs: Projected number of new jobs between 2006 and 2011.
- Replacement Jobs: Projected number of replacement jobs between 2006 and 2011.
- % New Jobs: Percent of projected new jobs in 2011 using 2006 as the base year.
- % Replacement Jobs: Percent of projected replacement jobs in 2011 using 2006 as the base year.
- % New and Replacement Jobs: Percent of projected new and replacement jobs in 2011 using 2006 as the base year.
- Earnings: Average annual earnings within the SOC code in 2006.

Note: Percent change figures must be interpreted carefully since they are based on actual number of jobs. In some cases the actual number of jobs may be quite low, thereby giving a misleading picture if only the percentage was considered.



Medical Assisting Occupation Projections 2006 - 2011

SOC					Rplmnt	% New	% Rplm	% New &	Forningo	Earnings	
Code	Name	Base Year	Five Year	New Jobs	Jobs		nt Jobs		Earnings Average	Median	
11-3011		3,437	3,647	210	334	6.1%	9.7%	15.8%	\$37.95	\$34.51	
11-9111	Medical and Health Service Managers	rices 3,710	3,811	101	362	2.7%	9.8%	12.5%	\$36.73	\$32.01	
29-1199	Health Diagnosing and T Practitioners, All Other	reating	1,836	1,929	93	199	5.1%	10.8%	15.9%	\$43.00	\$33.67
29-2011	Medical and Clinical Lab Technologists	oratory	1,990	1,958	-32	268	-1.6%	13.5%	11.9%	\$23.32	\$23.41
29-2012	? Medical and Clinical Lab Technicians	oratory	2,835	2,925	90	382	3.2%	13.4%	16.6%	\$16.49	\$13.54
29-2071	Medical Records and He Information Technicians	•	2,708	173	181	6.8%	7.2%	14.0%	\$15.56	\$14.31	
31-9092	? Medical Assistants	7,422	8,981	1,559	687	21.0%	9.3%	30.3%	\$12.50	\$12.15	
	3 Medical Equipment Prep		694	14	63	2.1%	9.2%	11.3%	\$12.73	\$12.27	
31-9094	Medical Transcriptionists	s 1,312	1,437	125	121	9.5%	9.3%	18.8%	\$15.27	\$14.96	
31-9099	Healthcare Support Wor All Other	kers, 3,427	3,501	74	317	2.2%	9.2%	11.4%	\$13.82	\$12.68	
43-1011	First-Line Supervisors/Managers o and Administrative Supp		21,365	725	2,214	3.5%	10.7%	14.2%	\$21.88	\$19.92	
43-6013	Medical Secretaries	7,201	7,508	307	690	4.3%	9.5%	13.8%_	\$12.83	\$12.12	
Totals:		57,025	60,464	3,439	5,818						

SOC Code 11-3011

Name Administrative Services Managers

Definition

Plan, direct, or coordinate supportive services of an organization, such as recordkeeping, mail distribution, telephone operator/receptionist, and other office support services. May oversee facilities planning and maintenance and custodial operations. Exclude "Purchasing Managers" (11-3061). Examples: Facilities Manager, Space Officer



Name Medical and Health Services Managers

Definition

Plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.

Examples: Director of Occupational Therapy, Medical Records Administrator, Public Health Administrator

SOC Code 29-1199

Name Health Diagnosing and Treating Practitioners, All Other

Definition

All health diagnosing and treating practitioners not listed separately. Examples: Acupuncturist, Homeopathic Doctor, Hypnotherapist

SOC Code 29-2011

Name Medical and Clinical Laboratory Technologists

Definition

Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff. Examples: Blood Bank Technologist, Cytotechnologist, Immunohematologist

SOC Code 29-2012

Name Medical and Clinical Laboratory Technicians

Definition

Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.

Examples: Blood Bank Technician, Cytotechnician, Serology Technician



Name Medical Records and Health Information Technicians

Definition

Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards. Examples: Disability Rater, Medical Records Specialist, Medical Library Historian

SOC Code 31-9092

Name Medical Assistants

Definition

Perform administrative and certain clinical duties under the direction of physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician. Exclude "Physician Assistants" (29-1071).

Examples: Morgue Attendant, Ophthalmic Aide, Physicians Aide

SOC Code 31-9093

Name Medical Equipment Preparers

Definition

Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment. Examples: Bandage Maker, Hot Packer, Sterilizer

SOC Code 31-9094

Name Medical Transcriptionists

Definition

Use transcribing machines with headset and foot pedal to listen to recordings by physicians and other healthcare professionals dictating a variety of medical reports, such as emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate medical jargon and abbreviations into their expanded forms. Edit as necessary and return reports in either printed or electronic form to the dictator for review and signature, or correction.

Examples: Medical Stenographer

SOC Code 31-9099

Name Healthcare Support Workers, All Other

Definition

All healthcare support workers not listed separately. Examples: Phlebotomist, Reducing Salon Attendant

SOC Code 43-1011

Name First-Line Supervisors/Managers of Office and Administrative Support Workers

Definition

Supervise and coordinate the activities of clerical and administrative support workers.

Examples: Claims Supervisor, Stock Room Manager, Teller Supervisor

SOC Code 43-6013

Name Medical Secretaries

Definition

Perform secretarial duties utilizing specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.

Examples: Psychiatric Secretary, Dental Secretary

Occupational Skills Analysis

This report provides detailed information on the knowledge, skills and abilities required for a given occupation. Consideration of these different competencies and levels of attainment while designing and reviewing curriculum will ensure that students are adequately prepared for employment.

Tables in the Job Skills report include:

- Competency which is required of the occupation. This is a subcategory of knowledge, skill, or ability.
- Importance of the competency to the occupation (in general terms)
 - Not important
 - Somewhat important
 - Important
 - Very important
 - Extremely important
- Importance of the competency to the occupation (in specific terms).
 - 0 to 20 = not important
 - 21 to 40 = somewhat important
 - 41 to 60 = important
 - 61 to 80 = very important
 - 81 to 100 = extremely important
- Level of Attainment in the competency required by the occupation:
 - Basic = 0 to 24
 - Intermediate = 25 to 49
 - Advanced = 50 to 74
 - Expert = 75 to 100

Occupational Skills Analysis 11-3011.00 - Administrative Services Managers

Plan, direct, or coordinate supportive services of an organization, such as recordkeeping, mail distribution, telephone operator/receptionist, and other office support services. May oversee facilities planning and maintenance and custodial operations.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Clerical	Important	69Advanced	71
Customer and Personal Service	Important	66Advanced	67
Personnel and Human Resources	Important	66Advanced	65
Mathematics	Important	54Advanced	58
Administration and Management	Important	68Advanced	57
English Language	Important	66Advanced	51
Economics and Accounting	Somewhat Important	48Intermediate	49
Computers and Electronics	Somewhat Important	44Intermediate	48
Public Safety and Security	Somewhat Important	45Intermediate	47
Law and Government	Important	56Intermediate	44
Psychology	Somewhat Important	31Intermediate	41
Communications and Media	Somewhat Important	45Intermediate	38
Education and Training	Somewhat Important	35Intermediate	37
Production and Processing	Somewhat Important	42 Intermediate	35
Transportation	Somewhat Important	31 Intermediate	32
Sales and Marketing	Somewhat Important	30Intermediate	30
Sociology and Anthropology	Not Important	19Intermediate	27
Chemistry	Not Important	16Basic	24
Mechanical	Not Important	17 Basic	23
Food Production	Not Important	17 Basic	19
Engineering and Technology	Not Important	18 Basic	19
Foreign Language	Not Important	12 Basic	17
Therapy and Counseling	Not Important	13Basic	17
Telecommunications	Not Important	18Basic	16
Medicine and Dentistry	Not Important	11Basic	12
Physics	Not Important	9Basic	11
Philosophy and Theology	Not Important	8 Basic	10
Geography	Not Important	6Basic	8
Design	Not Important	4Basic	4
Building and Construction	Not Important	3Basic	4
History and Archeology	Not Important	3Basic	4
Biology	Not Important	2 Basic	2
Fine Arts	Not Important	1 Basic	1

Skill	Importance	Imp (0-100) Level	Lvl (0-100)
Coordination	Very Important	82 Expert	76
Monitoring	Important	73Advanced	71
Speaking	Very Important	75Advanced	69
Service Orientation	Very Important	80 Advanced	68
Active Listening	Very Important	78Advanced	67
Writing	Very Important	75Advanced	67
Reading Comprehension	Very Important	82 Advanced	66
Active Learning	Very Important	76Advanced	65
Critical Thinking	Important	72Advanced	63
Management of Personnel Resources	Important	71Advanced	63
Social Perceptiveness	Very Important	85 Advanced	62
Time Management	Very Important	85Advanced	61
Mathematics	Important	60Advanced	58
Instructing	Very Important	75Advanced	58
Management of Financial Resources	Important	70Advanced	57
Judgment and Decision Making	Important	65Advanced	52
Learning Strategies	Somewhat Important	49Advanced	50
Complex Problem Solving	Important	51Intermediate	49
Negotiation	Somewhat Important	44 Intermediate	41
Operations Analysis	Somewhat Important	36 Intermediate	40
Equipment Selection	Somewhat Important	33Intermediate	39
Operation and Control	Somewhat Important	47 Intermediate	38
Persuasion	Somewhat Important	41Intermediate	37
Troubleshooting	Somewhat Important	33Intermediate	37
Management of Material Resources	Somewhat Important	39Intermediate	37
Programming	Somewhat Important	33Intermediate	37
Operation Monitoring	Somewhat Important	33Intermediate	34
Systems Evaluation	Somewhat Important	38Intermediate	32
Quality Control Analysis	Somewhat Important	25Intermediate	28
Systems Analysis	Somewhat Important	35Intermediate	28
Technology Design	Not Important	18Basic	24
Equipment Maintenance	Not Important	23Basic	23
Installation	Not Important	17Basic	20
Repairing	Not Important	18Basic	18
Science	Not Important	18Basic	16

Occupational Abilities				
Ability	Importance	Imp (0-100)	Level	LvI (0-100)
Near Vision	Important		vanced	63
Oral Expression	Very Important		vanced	61
Written Expression	Very Important		vanced	59
Oral Comprehension	Very Important		vanced	54
Written Comprehension	Very Important		vanced	54
Speech Recognition	Very Important		vanced	52
Problem Sensitivity	Important	72Adv	vanced	52
Deductive Reasoning	Important	53Inte	ermediate	48
Information Ordering	Important	66 Inte	ermediate	46
Originality	Somewhat Important	44 Inte	ermediate	46
Speech Clarity	Very Important	75 Inte	ermediate	46
Inductive Reasoning	Important	63Inte	ermediate	46
Fluency of Ideas	Somewhat Important	38Inte	ermediate	45
Far Vision	Somewhat Important	41 Inte	ermediate	43
Category Flexibility	Somewhat Important	47 Inte	ermediate	43
Number Facility	Somewhat Important	38Inte	ermediate	43
Memorization	Somewhat Important		ermediate	43
Visualization	Somewhat Important		ermediate	39
Time Sharing	Somewhat Important		ermediate	38
Auditory Attention	Somewhat Important	11621 11631	ermediate	36
Perceptual Speed	Somewhat Important		ermediate	34
Mathematical Reasoning	Somewhat Important	(2010) 1010 202	ermediate	34
Selective Attention	Important		ermediate	34
Control Precision	Somewhat Important		ermediate	32
Trunk Strength	Somewhat Important		ermediate	30
Finger Dexterity	Somewhat Important		ermediate	30
Depth Perception	Somewhat Important		ermediate	29
Flexibility of Closure	Somewhat Important		ermediate	27
Speed of Closure	Somewhat Important		ermediate	27
Visual Color Discrimination	Not Important	16Bas		23
Multilimb Coordination	Somewhat Important	25Bas		23
Arm-Hand Steadiness		19Bas		23
CONTRACTOR OF THE PROPERTY OF	Not Important			23
Hearing Sensitivity	Somewhat Important	25Bas		
Manual Dexterity	Somewhat Important	28Bas		21
Wrist-Finger Speed	Not Important	3Bas		1
Extent Flexibility	Not Important	6Bas		
Spatial Orientation	Not Important	13Bas		/
Static Strength	Not Important	9Bas		5
Reaction Time	Not Important	0Bas		0
Stamina	Not Important	0Bas		0
Sound Localization	Not Important	0Bas		0
Speed of Limb Movement	Not Important	0 Bas		0
Night Vision	Not Important	0 Bas		0
Dynamic Flexibility	Not Important	0 Bas		0
Peripheral Vision	Not Important	0 Bas	sic	0
Gross Body Coordination	Not Important	0 Bas		0
Explosive Strength	Not Important	0 Bas	sic	0
Response Orientation	Not Important	0Bas	sic	0
Gross Body Equilibrium	Not Important	0Bas		0
Dynamic Strength	Not Important	0Bas		0
Glare Sensitivity	Not Important	0Bas		0
Rate Control	Not Important	0Bas	The state of the s	0

Occupational Skills Analysis 11-9111.00 - Medical and Health Services Managers

Plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Customer and Personal Service	Very Important	90 Expert	76
Education and Training	Important	73Advanced	71
English Language	Very Important	81 Advanced	69
Therapy and Counseling	Important	69Advanced	69
Computers and Electronics	Important	73Advanced	67
Psychology	Important	65Advanced	64
Administration and Management	Very Important	86 Advanced	63
Personnel and Human Resources	Very Important	81 Advanced	62
Mathematics	Important	63Advanced	58
Medicine and Dentistry	Important	74Advanced	56
Public Safety and Security	Important	74Advanced	56
Communications and Media	Important	58Advanced	56
Production and Processing	Important	57 Advanced	55
Sociology and Anthropology	Important	55Advanced	53
Sales and Marketing	Somewhat Important	44Advanced	53
Philosophy and Theology	Somewhat Important	45Advanced	52
Biology	Somewhat Important	35 Intermediate	49
Law and Government	Important	72Intermediate	46
Chemistry	Somewhat Important	42Intermediate	46
Economics and Accounting	Important	56Intermediate	42
Telecommunications	Somewhat Important	43 Intermediate	38
Physics	Somewhat Important	29Intermediate	32
Clerical	Somewhat Important	41 Intermediate	30
Building and Construction	Somewhat Important	25Basic	24
Design	Not Important	19Basic	24
Engineering and Technology	Not Important	24Basic	22
Transportation	Not Important	15Basic	16
Mechanical	Not Important	9Basic	15
Food Production	Not Important	19Basic	14
Foreign Language	Not Important	16Basic	12
History and Archeology	Not Important	12Basic	8
Geography	Not Important	1Basic	1
Fine Arts	Not Important	1Basic	1

Skill	Importance	Imp (0-100) Level	LvI (0-100)
Critical Thinking	Very Important	86 Expert	83
Monitoring	Very Important	84Expert	82
Reading Comprehension	Very Important	89Expert	81
Learning Strategies	Very Important	78Expert	80
Active Learning	Very Important	81Expert	79
Active Listening	Very Important	95Expert	77
Coordination	Very Important	80Expert	76
Speaking	Very Important	85Expert	76
Service Orientation	Very Important	82Expert	75
Persuasion	Very Important	76Expert	75
Social Perceptiveness	Very Important	79Expert	75
Time Management	Very Important	83Advanced	73
Judgment and Decision Making	Very Important	83Advanced	73
Instructing	Very Important	75Advanced	72
Writing	Very Important	81Advanced	72
Management of Personnel Resources	Very Important	80Advanced	70
Systems Evaluation	Important	63Advanced	66
Management of Material Resources	Important	62Advanced	66
Complex Problem Solving	Important	71Advanced	64
Quality Control Analysis	Important	63Advanced	64
Operations Analysis	Important	64Advanced	62
Management of Financial Resources	Important	65Advanced	61
Mathematics	Important	62Advanced	61
Equipment Selection	Important	62Advanced	60
Negotiation	Important	62Advanced	56
Science	Important	52Advanced	54
Troubleshooting	Important	54Advanced	51
Operation Monitoring	Important	51Advanced	51
Systems Analysis	Important	53Advanced	50
Operation and Control	Somewhat Important	43Intermediate	47
Technology Design	Somewhat Important	44 Intermediate	46
Equipment Maintenance	Somewhat Important	33 Intermediate	31
Programming	Somewhat Important	32 Intermediate	31
Repairing	Not Important	23 Intermediate	28
Installation	Somewhat Important	26 Intermediate	26

Occupational Abilities			
Ability	Importance	Imp (0-100) Level	LvI (0-100)
Oral Comprehension	Very Important	81 Advanced	71
Oral Expression	Very Important	78Advanced	68
Deductive Reasoning	Very Important	78Advanced	66
Written Comprehension	Very Important	78Advanced	64
Written Expression	Very Important	75Advanced	63
Problem Sensitivity	Very Important	78Advanced	63
Inductive Reasoning	Very Important	78Advanced	59
Near Vision	Important	66Advanced	59
Mathematical Reasoning	Important	63Advanced	57
Originality	Important	56Advanced	57
Speech Clarity	Important	69Advanced	57
Category Flexibility	Important	66Advanced	55
Information Ordering	Important	72 Advanced	54
Speech Recognition	Important	72Advanced	54
Number Facility	Somewhat Important	41 Advanced	52
Flexibility of Closure	Important	50Advanced	50
Fluency of Ideas	Important	53 Intermediate	48
Far Vision	Somewhat Important	44Intermediate	46
Memorization	Somewhat Important	35 Intermediate	46
Perceptual Speed	Important	53 Intermediate	45
Visualization	Somewhat Important	35 Intermediate	43
Time Sharing	Important	56 Intermediate	43
Speed of Closure	Somewhat Important	38Intermediate	41
Selective Attention	Important	56Intermediate	39
Trunk Strength	Somewhat Important	35Intermediate	30
Auditory Attention	Somewhat Important	31 Intermediate	30
Finger Dexterity	Somewhat Important	31 Intermediate	30
Manual Dexterity	Not Important	22 Intermediate	25
Depth Perception	Somewhat Important	31 Intermediate	25
Control Precision	Not Important	19Basic	23
Visual Color Discrimination	Not Important	19Basic	21
Hearing Sensitivity	Not Important	22Basic	20
Gross Body Coordination	Not Important	19Basic	20
Speed of Limb Movement	Not Important	16Basic	16
Stamina	Not Important	19Basic	14
Arm-Hand Steadiness	Not Important	13Basic	14
Wrist-Finger Speed	Not Important	6Basic	9
Extent Flexibility	Not Important	3Basic	4
Spatial Orientation	Not Important	3Basic	4
Reaction Time	Not Important	0Basic	0
Sound Localization	Not Important	0Basic	0
Night Vision	Not Important	0Basic	0
Dynamic Flexibility	Not Important	0Basic	0
Static Strength	Not Important	0Basic	0
Peripheral Vision	Not Important	0Basic	0
Multilimb Coordination	Not Important	0Basic	0
Explosive Strength	Not Important	0Basic	0
Response Orientation	Not Important	0Basic	0
Gross Body Equilibrium	Not Important	0Basic	0
Dynamic Strength	Not Important	0Basic	0
Glare Sensitivity	Not Important	0Basic	0
Rate Control	Not Important	0Basic	0

Occupational Skills Analysis 29-2011.00 - Medical and Clinical Laboratory Technologists

Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Biology	Very Important	88Expert	87
Chemistry	Very Important	91Advanced	69
Mathematics	Very Important	75 Advanced	60
English Language	Very Important	88 Advanced	59
Customer and Personal Service	Important	72 Advanced	59
Computers and Electronics	Very Important	80 Advanced	58
Education and Training	Important	57 Advanced	52
Mechanical	Important	53 Advanced	51
Public Safety and Security	Very Important	78 Advanced	51
Clerical	Somewhat Important	41 Intermediate	41
Design	Somewhat Important	42 Intermediate	35
Psychology	Somewhat Important	38 Intermediate	34 32
Physics	Somewhat Important	28 Intermediate	32
Communications and Media	Somewhat Important	37 Intermediate	31
Medicine and Dentistry	Somewhat Important	42 Intermediate	31
Engineering and Technology	Somewhat Important	40 Intermediate	26
Personnel and Human Resources	Somewhat Important	28Basic	22
Administration and Management	Not Important	17 Basic	18
Law and Government	Not Important	16Basic	18
Telecommunications	Somewhat Important	32Basic	17
Production and Processing	Not Important	19Basic	17
Sociology and Anthropology	Not Important	13Basic	14
Economics and Accounting	Not Important	13Basic	12
Transportation	Not Important	12Basic	11
Therapy and Counseling	Not Important	10Basic	9
Sales and Marketing	Not Important	8Basic	8
Foreign Language	Not Important	7 Basic	7
Geography	Not Important	8Basic	6
Philosophy and Theology	Not Important	4Basic	6
History and Archeology	Not Important	4Basic	4
Fine Arts	Not Important	4Basic	3
Food Production	Not Important	2Basic	6 6 4 3 2 2
Building and Construction	Not Important	2Basic	2

Occupational Skills			
Skill	Importance	Imp (0-100) Level	LvI (0-100)
Equipment Maintenance	Very Important	88 Expert	79
Quality Control Analysis	Very Important	94Advanced	72
Critical Thinking	Very Important	79Advanced	71
Reading Comprehension	Very Important	87 Advanced	70
Operation Monitoring	Very Important	80 Advanced	69
Active Learning	Important	71Advanced	68
Instructing	Important	67Advanced	68
Science	Very Important	79Advanced	66
Operation and Control	Very Important	81 Advanced	66
Troubleshooting	Very Important	84Advanced	65
Active Listening	Important	72Advanced	64
Monitoring	Important	70Advanced	62
Equipment Selection	Important	66Advanced	62
Judgment and Decision Making	Important	65Advanced	59
Complex Problem Solving	Important	71Advanced	59
Speaking	Important	64Advanced	58
Learning Strategies	Important	64Advanced	58
Time Management	Important	70Advanced	57
Writing	Important	57Advanced	57
Repairing	Important	61Advanced	56
Mathematics	Important	66Advanced	55
Coordination	Important	62Advanced	54
Service Orientation	Important	51Advanced	52
Social Perceptiveness	Somewhat Important	44 Intermediate	46
Operations Analysis	Somewhat Important	39Intermediate	40
Management of Personnel Resources	Somewhat Important	37 Intermediate	40
Systems Analysis	Somewhat Important	40Intermediate	39
Systems Evaluation	Somewhat Important	38Intermediate	38
Persuasion	Somewhat Important	26 Intermediate	34
Negotiation	Somewhat Important	30Intermediate	32
Installation	Somewhat Important	27Intermediate	32
Technology Design	Somewhat Important	30Intermediate	29
Management of Material Resources	Somewhat Important	31Intermediate	29
Management of Financial Resources	Not Important	15Basic	14
Programming	Not Important	4Basic	4

Occupational Abilities				
Ability	Importance	Imp (0-100)	Level	LvI (0-100)
Near Vision	Very Important	88Ex		79
Oral Comprehension	Important	69Ad	vanced	73
Inductive Reasoning	Very Important		vanced	73
Oral Expression	Very Important	78Ad	vanced	70
Problem Sensitivity	Very Important	88 Ad	vanced	70
Flexibility of Closure	Important	69Ad	vanced	66
Written Comprehension	Very Important	78Ad	vanced	66
Category Flexibility	Important	69Ad	vanced	63
Information Ordering	Important	72 Ad	vanced	61
Finger Dexterity	Important	66Ad	vanced	61
Deductive Reasoning	Very Important	75Ad	vanced	61
Written Expression	Important	63Ad	vanced	59
Arm-Hand Steadiness	Important	63Ad	vanced	59
Fluency of Ideas	Important	56Ad	vanced	54
Perceptual Speed	Important		vanced	52
Visual Color Discrimination	Important		vanced	52
Visualization	Important		vanced	50
Selective Attention	Important		vanced	50
Mathematical Reasoning	Important		ermediate	48
Originality	Important		ermediate	48
Memorization	Important		ermediate	48
Control Precision	Important		ermediate	46
Number Facility	Important		ermediate	46
Speech Clarity	Important		ermediate	46
Speed of Closure	Important		ermediate	46
Far Vision	Important		ermediate	45
Manual Dexterity	Somewhat Important		ermediate	41
			ermediate	41
Speech Recognition	Important			39
Time Sharing	Somewhat Important		ermediate	38
Hearing Sensitivity	Somewhat Important		ermediate	38
Depth Perception	Somewhat Important		ermediate	36
Reaction Time	Somewhat Important		ermediate	
Wrist-Finger Speed	Somewhat Important		ermediate	36
Multilimb Coordination	Somewhat Important		ermediate	36
Trunk Strength	Somewhat Important		ermediate	34
Auditory Attention	Somewhat Important		ermediate	32
Static Strength	Somewhat Important		ermediate	32
Rate Control	Somewhat Important		ermediate	32
Speed of Limb Movement	Somewhat Important		ermediate	27
Response Orientation	Somewhat Important		ermediate	25
Dynamic Strength	Not Important		ermediate	25
Stamina	Somewhat Important	38Bas		23
Extent Flexibility	Somewhat Important	25Bas		23
Gross Body Coordination	Somewhat Important	25Bas		21
Gross Body Equilibrium	Not Important	19Bas		16
Night Vision	Not Important	6Bas		7
Glare Sensitivity	Not Important	6Bas	sic	5
Peripheral Vision	Not Important	6Bas	sic	4
Spatial Orientation	Not Important	3Bas	sic	2
Sound Localization	Not Important	3Bas	sic	2
Dynamic Flexibility	Not Important	3Bas	sic	2 2 2 0
Explosive Strength	Not Important	0Bas	sic	0

Occupational Skills Analysis 29-2012.00 - Medical and Clinical Laboratory Technicians

Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Clerical	Important	56Advanced	51
Medicine and Dentistry	Important	55 Intermediate	43
Customer and Personal Service	Important	61 Intermediate	43
Education and Training	Somewhat Important	46 Intermediate	42
Therapy and Counseling	Somewhat Important	44 Intermediate	39
Biology	Somewhat Important	36 Intermediate	36
Mathematics	Somewhat Important	30 Intermediate	36
Chemistry	Somewhat Important	31 Intermediate	35
Computers and Electronics	Somewhat Important	31 Intermediate	30
Public Safety and Security	Somewhat Important	40 Intermediate	30
English Language	Somewhat Important	28 Intermediate	26
Administration and Management	Somewhat Important	34 Intermediate	25
Sales and Marketing	Not Important	24Basic	23
Psychology	Not Important	19Basic	23
Personnel and Human Resources	Somewhat Important	30Basic	22
Production and Processing	Not Important	18Basic	21
Economics and Accounting	Not Important	22Basic	20
Philosophy and Theology	Not Important	9Basic	20
Sociology and Anthropology	Not Important	13Basic	15
Engineering and Technology	Not Important	12Basic	14
Physics	Not Important	11Basic	13
Mechanical	Not Important	11Basic	13
Communications and Media	Not Important	9Basic	11
Foreign Language	Not Important	8Basic	9
Law and Government	Not Important	7 Basic	9
Telecommunications	Not Important	9Basic	5
Transportation	Not Important	2 Basic	2
Geography	Not Important	1 Basic	1
Design	Not Important	1 Basic	1
Building and Construction	Not Important	1 Basic	1
History and Archeology	Not Important	0Basic	0
Food Production	Not Important	0Basic	0
Fine Arts	Not Important	0Basic	0

Skill	Importance	Imp (0-100) Level	LvI (0-100)
Monitoring	Important	69Advanced	71
Active Listening	Very Important	75Advanced	70
Reading Comprehension	Very Important	82Advanced	70
Instructing	Important	70Advanced	68
Active Learning	Important	67Advanced	68
Equipment Maintenance	Important	70Advanced	67
Science	Important	71Advanced	65
Writing	Important	67 Advanced	64
Time Management	Important	70Advanced	64
Troubleshooting	Important	67 Advanced	63
Judgment and Decision Making	Important	69Advanced	63
Critical Thinking	Important	67 Advanced	62
Speaking	Important	73Advanced	61
Learning Strategies	Important	60Advanced	58
Social Perceptiveness	Important	56Advanced	58
Equipment Selection	Important	54Advanced	58
Coordination	Important	64Advanced	57
Quality Control Analysis	Important	66Advanced	57
Service Orientation	Important	58Advanced	57
Operation and Control	Important	56Advanced	54
Mathematics	Important	59Advanced	54
Operation Monitoring	Important	64Advanced	53
Complex Problem Solving	Important	53 Intermediate	49
Negotiation	Somewhat Important	48 Intermediate	47
Persuasion	Somewhat Important	40Intermediate	43
Installation	Somewhat Important	43 Intermediate	43
Systems Evaluation	Somewhat Important	34Intermediate	41
Systems Analysis	Somewhat Important	36Intermediate	40
Management of Material Resources	Somewhat Important	42Intermediate	39
Repairing	Somewhat Important	40Intermediate	37
Management of Personnel Resources	Somewhat Important	34 Intermediate	34
Operations Analysis	Somewhat Important	34Intermediate	34
Technology Design	Somewhat Important	31 Intermediate	32
Programming	Not Important	21Basic	19
Management of Financial Resources	Somewhat Important	28Basic	16

Ability Import	ance Imp (0-100) Level Lvl (0-10	וחר
The state of the s		(טנ
Near Vision Very Importa	nt 85Expert	79
Inductive Reasoning Very Importa		71
Written Comprehension Important	72Advanced	68
Oral Expression Important	69Advanced	64
Finger Dexterity Important	69Advanced	64
Problem Sensitivity Very Importa	nt 75Advanced	64
Oral Comprehension Very Importa	nt 75Advanced	64
Flexibility of Closure Important	69Advanced	63
Visual Color Discrimination Important	72Advanced	63
Written Expression Important	60Advanced	61
Arm-Hand Steadiness Important	72Advanced	61
Information Ordering Important	72Advanced	59
Deductive Reasoning Very Importa	nt 78Advanced	57
Category Flexibility Important	60Advanced	55
Control Precision Important	60Advanced	55
Far Vision Important	53Advanced	54
Fluency of Ideas Important	50Advanced	50
Speech Clarity Important	66Intermediate	48
Speech Recognition Important	56Intermediate	46
Selective Attention Important	56Intermediate	46
Memorization Important	50Intermediate	46
Perceptual Speed Important	60Intermediate	45
Mathematical Reasoning Important	56 Intermediate	45
Number Facility Important	50Intermediate	45
Reaction Time Somewhat In		43
Manual Dexterity Somewhat In		43
Originality Somewhat In		41
Speed of Closure Somewhat In		41
Visualization Somewhat In		39
Depth Perception Somewhat In		39
Trunk Strength Somewhat In		38
Rate Control Somewhat In		38
Wrist-Finger Speed Somewhat In		32
Hearing Sensitivity Somewhat In		30
		30
Time Sharing Somewhat In		30 29
Auditory Attention Somewhat In		25
Static Strength Somewhat In		
Response Orientation Somewhat In		25 20
Stamina Not Importan		20
Speed of Limb Movement Not Importan		18
Gross Body Coordination Not Importan		18
Night Vision Not Importan		7
Glare Sensitivity Not Importan		5 2 2 2
Extent Flexibility Not Importan		2
Peripheral Vision Not Importan	The state of the s	2
Gross Body Equilibrium Not Importan		2
Spatial Orientation Not Importan		
Sound Localization Not Importan		0
Dynamic Flexibility Not Importan		0
Explosive Strength Not Importan		0
Dynamic Strength Not Importan	0Basic	0

Occupational Skills Analysis 29-2071.00 - Medical Records and Health Information Technicians

Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	Lvl (0-100)
Clerical	Very Important	75 Advanced	70
Customer and Personal Service	Important	69Intermediate	49
English Language	Important	61 Intermediate	42
Computers and Electronics	Important	59Intermediate	42
Administration and Management	Somewhat Important	49Intermediate	41
Personnel and Human Resources	Somewhat Important	36 Intermediate	33
Education and Training	Somewhat Important	32 Intermediate	33
Mathematics	Somewhat Important	41 Intermediate	29
Medicine and Dentistry	Somewhat Important	31 Intermediate	28
Sales and Marketing	Not Important	20Basic	19
Communications and Media	Not Important	23Basic	18
Foreign Language	Somewhat Important	46Basic	17
Public Safety and Security	Somewhat Important	25Basic	16
Law and Government	Not Important	23Basic	16
Philosophy and Theology	Not Important	17 Basic	14
Psychology	Not Important	16Basic	12
Production and Processing	Not Important	14Basic	11
Biology	Not Important	12Basic	11
Economics and Accounting	Not Important	14Basic	11
Telecommunications	Somewhat Important	33Basic	10
Therapy and Counseling	Not Important	9Basic	
Transportation	Not Important	8Basic	5
Sociology and Anthropology	Not Important	5Basic	8 5 5 3 3 2 2 2
Geography	Not Important	3Basic	3
Design	Not Important	3Basic	3
Engineering and Technology	Not Important	3Basic	2
Mechanical	Not Important	3Basic	2
Chemistry	Not Important	2Basic	2
Physics	Not Important	2Basic	2
History and Archeology	Not Important	2Basic	1
Fine Arts	Not Important	1 Basic	1
Building and Construction	Not Important	1 Basic	1
Food Production	Not Important	1Basic	0

Skill	Importance	Imp (0-100) Level	Lvl (0-100)
Reading Comprehension	Very Important	83Advanced	65
Active Listening	Very Important	91Advanced	65
Critical Thinking	Important	65Advanced	62
Instructing	Important	67Advanced	59
Learning Strategies	Important	63Advanced	58
Active Learning	Important	67 Advanced	57
Time Management	Very Important	75Advanced	56
Monitoring	Important	56Advanced	56
Speaking	Important	71Advanced	55
Writing	Important	70Advanced	52
Social Perceptiveness	Important	65Advanced	50
Systems Evaluation	Important	53Advanced	50
Service Orientation	Important	62Advanced	50
Judgment and Decision Making	Important	63Advanced	50
Coordination	Important	50Intermediate	48
Persuasion	Somewhat Important	40Intermediate	41
Equipment Selection	Somewhat Important	44 Intermediate	41
Negotiation	Somewhat Important	45Intermediate	41
Management of Personnel Resources	Somewhat Important	42 Intermediate	38
Operations Analysis	Somewhat Important	39Intermediate	37
Complex Problem Solving	Important	51 Intermediate	37
Operation and Control	Somewhat Important	44 Intermediate	35
Systems Analysis	Somewhat Important	40Intermediate	35
Management of Material Resources	Somewhat Important	38Intermediate	34
Troubleshooting	Somewhat Important	41 Intermediate	33
Quality Control Analysis	Important	51 Intermediate	33
Mathematics	Somewhat Important	37 Intermediate	30
Science	Somewhat Important	26Basic	23
Management of Financial Resources	Somewhat Important	30Basic	23
Operation Monitoring	Somewhat Important	26Basic	22
Equipment Maintenance	Not Important	24Basic	20
Technology Design	Not Important	12Basic	16
Installation	Not Important	12Basic	15
Programming	Not Important	13Basic	11
Repairing	Not Important	7Basic	6

Occupational Abilities			
Ability	Importance	Imp (0-100) Level	Lvl (0-100)
Near Vision	Important	69Advanced	61
Oral Comprehension	Very Important	81Advanced	57
Oral Expression	Very Important	75Advanced	55
Information Ordering	Very Important	75Advanced	55
Written Comprehension	Very Important	78Advanced	55
Category Flexibility	Important	66Advanced	54
Written Expression	Important	63Advanced	52
Deductive Reasoning	Important	60Advanced	50
Speech Recognition	Important	66 Intermediate	48
Problem Sensitivity	Important	60Intermediate	48
Inductive Reasoning	Important	53 Intermediate	48
Perceptual Speed	Somewhat Important	44Intermediate	43
Selective Attention	Important	60Intermediate	41
Speech Clarity	Important	69Intermediate	41
Originality	Somewhat Important	41 Intermediate	39
Memorization	Somewhat Important	38Intermediate	38
Speed of Closure	Somewhat Important	31Intermediate	38
Finger Dexterity	Somewhat Important	47 Intermediate	34
Number Facility	Somewhat Important	31Intermediate	34
Flexibility of Closure	Somewhat Important	41 Intermediate	32
Time Sharing	Somewhat Important	35Intermediate	32
Manual Dexterity	Somewhat Important	41 Intermediate	30
Wrist-Finger Speed	Somewhat Important	25Intermediate	30
Auditory Attention	Somewhat Important	35Intermediate	29
Fluency of Ideas	Somewhat Important	28Intermediate	29
Mathematical Reasoning	Somewhat Important	31 Intermediate	29
Visualization	Somewhat Important	25Intermediate	29
Trunk Strength	Somewhat Important	31 Intermediate	25
Far Vision	Somewhat Important	25Intermediate	25
Arm-Hand Steadiness	Somewhat Important	31Intermediate	25
Static Strength	Somewhat Important	35Basic	23
Extent Flexibility	Not Important	19Basic	21
Multilimb Coordination	Somewhat Important	28Basic	21
Visual Color Discrimination	Somewhat Important	25Basic	18
Control Precision	Not Important	16 Basic	18
Hearing Sensitivity	Not Important	16Basic	16
Gross Body Coordination	Not Important	22Basic	16
Dynamic Strength	Not Important	16Basic	11
Stamina	Not Important	13Basic	9
Gross Body Equilibrium	Not Important	13 Basic	9
Reaction Time	Not Important	3Basic	5
Sound Localization	Not Important	3Basic	2
Spatial Orientation	Not Important	0Basic	0
Speed of Limb Movement	Not Important	0Basic	0
Night Vision	The state of the s		
Dynamic Flexibility	Not Important	0 Basic	0
Peripheral Vision	Not Important	0 Basic	0
Explosive Strength	Not Important	0 Basic	0
Depth Perception	Not Important	0 Basic	0
	Not Important	0Basic	0
Response Orientation	Not Important	0 Basic	0
Glare Sensitivity	Not Important	0 Basic	0
Rate Control	Not Important	0Basic	0

Occupational Skills Analysis 31-9092.00 - Medical Assistants

Perform administrative and certain clinical duties under the direction of physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	Lvl (0-100)
Customer and Personal Service	Important	69Advanced	67
English Language	Very Important	75Advanced	58
Clerical	Important	56 Advanced	56
Medicine and Dentistry	Important	64Advanced	54
Psychology	Somewhat Important	37 Intermediate	49
Therapy and Counseling	Somewhat Important	47 Intermediate	43
Education and Training	Somewhat Important	41 Intermediate	41
Mathematics	Somewhat Important	43Intermediate	38
Administration and Management	Somewhat Important	40 Intermediate	34
Chemistry	Somewhat Important	34Intermediate	32
Biology	Somewhat Important	29Intermediate	31
Computers and Electronics	Somewhat Important	31 Intermediate	29
Public Safety and Security	Somewhat Important	38Intermediate	26
Sales and Marketing	Somewhat Important	27 Basic	22
Economics and Accounting	Not Important	21 Basic	19
Personnel and Human Resources	Somewhat Important	27 Basic	19
Law and Government	Not Important	22Basic	19
Telecommunications	Somewhat Important	34Basic	16
Physics	Not Important	16Basic	16
Foreign Language	Not Important	20 Basic	16 15 15
Transportation	Not Important	21 Basic	15
Geography	Not Important	10Basic	14
Communications and Media	Not Important	14Basic	13
Philosophy and Theology	Not Important	9Basic	12
Production and Processing	Not Important	12Basic	11
Sociology and Anthropology	Not Important	11Basic	11
Mechanical	Not Important	8Basic	9
Engineering and Technology	Not Important	11Basic	9
Design	Not Important	4Basic	4
Fine Arts	Not Important	1Basic	3
History and Archeology	Not Important	0Basic	3
Food Production	Not Important	0Basic	0
Building and Construction	Not Important	0Basic	0

Skill	Importance	Imp (0-100) Level	LvI (0-100)
Active Listening	Very Important	87Advanced	73
Social Perceptiveness	Very Important	78Advanced	71
Instructing	Very Important	78Advanced	69
Reading Comprehension	Very Important	75Advanced	68
Service Orientation	Important	72Advanced	67
Learning Strategies	Important	67Advanced	64
Speaking	Very Important	79Advanced	62
Active Learning	Important	72Advanced	62
Coordination	Important	64Advanced	59
Mathematics	Important	59Advanced	58
Writing	Important	65Advanced	58
Time Management	Important	69Advanced	57
Monitoring	Important	64Advanced	55
Critical Thinking	Important	64Advanced	55
Operation and Control	Important	54Advanced	51
Troubleshooting	Important	60Intermediate	49
Persuasion	Somewhat Important	41 Intermediate	49
Judgment and Decision Making	Important	54Intermediate	48
Operation Monitoring	Important	56 Intermediate	47
Negotiation	Somewhat Important	45 Intermediate	46
Complex Problem Solving	Somewhat Important	48 Intermediate	45
Science	Important	50Intermediate	42
Equipment Selection	Somewhat Important	45 Intermediate	41
Systems Analysis	Somewhat Important	31 Intermediate	34
Equipment Maintenance	Somewhat Important	36Intermediate	33
Quality Control Analysis	Somewhat Important	37 Intermediate	33
Systems Evaluation	Somewhat Important	31Intermediate	33
Operations Analysis	Somewhat Important	26Intermediate	32
Technology Design	Somewhat Important	30Intermediate	28
Management of Financial Resources	Not Important	20Intermediate	26
Management of Personnel Resources	Not Important	24Intermediate	25
Management of Material Resources	Somewhat Important	25Basic	24
Installation	Not Important	22Basic	20
Repairing	Not Important	20Basic	18
Programming	Not Important	12Basic	7

Occupational Abilities			
Ability	Importance	Imp (0-100) Level	LvI (0-100)
Oral Comprehension	Very Important	88Advanced	64
Oral Expression	Very Important	85Advanced	61
Written Comprehension	Important	66Advanced	59
Near Vision	Important	72Advanced	54
Arm-Hand Steadiness	Important	60Advanced	52
Information Ordering	Important	69Advanced	50
Deductive Reasoning	Important	63Advanced	50
Written Expression	Important	66 Intermediate	48
Problem Sensitivity	Important	69Intermediate	48
Speech Recognition	Important	69Intermediate	46
Speech Clarity	Very Important	78 Intermediate	45
Inductive Reasoning	Somewhat Important	47 Intermediate	45
Selective Attention	Important	50Intermediate	41
Category Flexibility	Somewhat Important	41 Intermediate	39
Finger Dexterity	Somewhat Important	38 Intermediate	38
Time Sharing	Important	53Intermediate	38
Trunk Strength	Important	50Intermediate	36
Multilimb Coordination	Somewhat Important	41Intermediate	36
Memorization	Somewhat Important	41Intermediate	36
Manual Dexterity	Somewhat Important	41Intermediate	34
Control Precision	Somewhat Important	38Intermediate	34
Originality	Somewhat Important	31Intermediate	30
Auditory Attention	Somewhat Important	28Intermediate	29
Perceptual Speed	Somewhat Important	28Intermediate	25
Visual Color Discrimination	Somewhat Important	28Intermediate	25
Visualization	Somewhat Important	25Intermediate	25
Gross Body Coordination	Somewhat Important	31Intermediate	25
Speed of Closure	Somewhat Important	25Intermediate	25
Extent Flexibility	Somewhat Important	31Basic	23
Far Vision	Not Important	22Basic	21
Fluency of Ideas	Not Important	22Basic	21
Static Strength	Somewhat Important	28Basic	21
Depth Perception	Somewhat Important	28Basic	21
Flexibility of Closure	Not Important	22Basic	20
Stamina	Somewhat Important	28Basic	20
Mathematical Reasoning	Not Important	19Basic	18
Hearing Sensitivity	Not Important	13Basic	14
Number Facility	Not Important	16Basic	14
Speed of Limb Movement	Not Important	16Basic	13
Spatial Orientation	Not Important	16Basic	7
Dynamic Strength	Not Important	9Basic	7
Response Orientation	Not Important	6Basic	5
Reaction Time	Not Important	6Basic	4
Wrist-Finger Speed	Not Important	3Basic	4
Gross Body Equilibrium	Not Important	3Basic	2
Sound Localization	Not Important	0Basic	0
Night Vision	Not Important	0Basic 0Basic	0
Dynamic Flexibility	The state of the s		
Peripheral Vision	Not Important	0Basic	0
Explosive Strength	Not Important	0Basic	0
	Not Important	0Basic	0
Glare Sensitivity	Not Important	0Basic	0
Rate Control	Not Important	0Basic	0

Occupational Skills Analysis 31-9093.00 - Medical Equipment Preparers

Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	Lvl (0-100)
Customer and Personal Service	Important	64Advanced	56
Education and Training	Important	56 Advanced	53
English Language	Important	70 Advanced	51
Chemistry	Somewhat Important	46 Intermediate	48
Administration and Management	Important	58 Intermediate	44
Production and Processing	Important	56 Intermediate	43
Biology	Somewhat Important	37 Intermediate	38
Mathematics	Somewhat Important	39Intermediate	36
Public Safety and Security	Somewhat Important	42 Intermediate	34
Computers and Electronics	Somewhat Important	34Intermediate	33
Medicine and Dentistry	Somewhat Important	40 Intermediate	32
Clerical	Somewhat Important	38 Intermediate	31
Mechanical	Somewhat Important	35Intermediate	31
Communications and Media	Somewhat Important	38Intermediate	31
Psychology	Somewhat Important	25Intermediate	27
Engineering and Technology	Not Important	24Basic	23
Physics	Not Important	22Basic	21
Personnel and Human Resources	Somewhat Important	33Basic	21
Law and Government	Not Important	24Basic	20
Transportation	Somewhat Important	25Basic	18
Economics and Accounting	Not Important	21Basic	17
Philosophy and Theology	Not Important	15Basic	16
Design	Not Important	16Basic	15
Telecommunications	Somewhat Important	26Basic	15
Sociology and Anthropology	Not Important	14Basic	14
Therapy and Counseling	Not Important	11Basic	13
Foreign Language	Not Important	15Basic	11
Sales and Marketing	Not Important	11Basic	10
History and Archeology	Not Important	12Basic	10
Building and Construction	Not Important	8Basic	
Food Production	Not Important	8Basic	8
Fine Arts	Not Important	7 Basic	8 8 7
Geography	Not Important	5Basic	5

Skill	Importance	Imp (0-100) Level	LvI (0-100)
Operation Monitoring	Very Important	77 Advanced	68
Active Learning	Important	69Advanced	64
Monitoring	Important	65Advanced	64
Learning Strategies	Important	68Advanced	63
Instructing	Important	74Advanced	61
Service Orientation	Important	63Advanced	58
Reading Comprehension	Important	74Advanced	58
Critical Thinking	Important	62Advanced	54
Coordination	Important	58Advanced	54
Social Perceptiveness	Important	55Advanced	53
Equipment Selection	Important	59Advanced	53
Quality Control Analysis	Important	63Advanced	53
Equipment Maintenance	Important	56Advanced	52
Active Listening	Very Important	76Advanced	50
Management of Material Resources	Important	54Advanced	50
Time Management	Important	56Advanced	50
Complex Problem Solving	Important	60Intermediate	49
Operation and Control	Important	62Intermediate	48
Speaking	Important	70Intermediate	46
Management of Personnel Resources	Important	52Intermediate	46
Writing	Important	59Intermediate	46
Judgment and Decision Making	Important	51 Intermediate	46
Troubleshooting	Important	51 Intermediate	44
Systems Evaluation	Somewhat Important	40Intermediate	42
Operations Analysis	Somewhat Important	40Intermediate	42
Management of Financial Resources	Somewhat Important	41 Intermediate	39
Science	Somewhat Important	40Intermediate	38
Persuasion	Somewhat Important	32Intermediate	36
Systems Analysis	Somewhat Important	40Intermediate	36
Repairing	Somewhat Important	34Intermediate	36
Mathematics	Somewhat Important	41 Intermediate	34
Installation	Somewhat Important	29Intermediate	31
Technology Design	Somewhat Important	36Intermediate	30
Negotiation	Somewhat Important	33Intermediate	29 12
Programming	Not Important	13Basic	12

Occupational Abilities			
Ability	Importance	Imp (0-100) Level	Lvl (0-100)
Oral Comprehension	Important	63Advanced	54
Oral Expression	Somewhat Important	47 Advanced	50
Information Ordering	Important	56 Intermediate	46
Deductive Reasoning	Somewhat Important	47 Intermediate	46
Written Comprehension	Somewhat Important	41 Intermediate	46
Near Vision	Important	63 Intermediate	46
Problem Sensitivity	Important	69Intermediate	45
Inductive Reasoning	Somewhat Important	47 Intermediate	43
Trunk Strength	Somewhat Important	38 Intermediate	39
Written Expression	Important	50 Intermediate	39
Visualization	Somewhat Important	31 Intermediate	39
Manual Dexterity	Somewhat Important	44 Intermediate	38
Perceptual Speed	Somewhat Important	35 Intermediate	38
Finger Dexterity	Somewhat Important	35Intermediate	38
Speech Recognition	Somewhat Important	44Intermediate	38
Speech Clarity	Somewhat Important	41 Intermediate	38
Category Flexibility	Somewhat Important	41 Intermediate	36
Selective Attention	Somewhat Important	38Intermediate	36
Arm-Hand Steadiness	Somewhat Important	41Intermediate	36
Extent Flexibility	Somewhat Important	28Intermediate	34
Control Precision	Somewhat Important	35Intermediate	34
Static Strength	Somewhat Important	35Intermediate	32
Flexibility of Closure	Somewhat Important	35Intermediate	30
Rate Control	Somewhat Important	28Intermediate	25
Far Vision	Not Important	19Basic	23
Auditory Attention	Somewhat Important	25Basic	23
Multilimb Coordination	Not Important	22Basic	23
Stamina	Not Important	19Basic	20
Fluency of Ideas	Not Important	16Basic	20
Originality	Not Important	16Basic	20
Memorization	Not Important	16Basic	20
Hearing Sensitivity	Not Important	16Basic	18
Reaction Time	Not Important	16Basic	18
Number Facility	Not Important	19Basic	18
Gross Body Coordination	Not Important	19Basic	18
Depth Perception	Not Important	16Basic	16
Dynamic Strength	Not Important	13Basic	16
Time Sharing	Not Important	13Basic	14
Speed of Closure	Not Important	13Basic	14
Wrist-Finger Speed	Not Important	13Basic	13
Visual Color Discrimination	Not Important	16Basic	13
Mathematical Reasoning	Not Important	19Basic	13
Response Orientation	Not Important	9Basic	9
Speed of Limb Movement	Not Important	9Basic	7
Gross Body Equilibrium	Not Important	6Basic	7
Spatial Orientation	Not Important	0Basic	0
Sound Localization	Not Important	0Basic	
Night Vision	The state of the s		0
Dynamic Flexibility	Not Important	0 Basic	0
Peripheral Vision	Not Important	0 Basic	0
	Not Important	0 Basic	0
Explosive Strength	Not Important	0 Basic	0
Glare Sensitivity	Not Important	0 Basic	0

Occupational Skills Analysis 31-9094.00 - Medical Transcriptionists

Use transcribing machines with headset and foot pedal to listen to recordings by physicians and other healthcare professionals dictating a variety of medical reports, such as emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate medical jargon and abbreviations into their expanded forms. Edit as necessary and return reports in either printed or electronic form to the dictator for review and signature, or correction.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Clerical	Very Important	85Advanced	74
English Language	Very Important	94 Advanced	71
Computers and Electronics	Important	60 Advanced	53
Administration and Management	Somewhat Important	35 Intermediate	36
Medicine and Dentistry	Somewhat Important	48 Intermediate	36
Customer and Personal Service	Somewhat Important	32 Intermediate	34
Education and Training	Not Important	20Basic	21
Personnel and Human Resources	Not Important	21Basic	20
Law and Government	Not Important	17 Basic	19
Telecommunications	Not Important	23Basic	16
Therapy and Counseling	Not Important	14Basic	15
Psychology	Not Important	14Basic	14
Public Safety and Security	Not Important	17 Basic	14
Communications and Media	Not Important	12 Basic	13
Mathematics	Not Important	12 Basic	11
Biology	Not Important	6Basic	8
Sociology and Anthropology	Not Important	8Basic	8
Foreign Language	Not Important	5Basic	5
Geography	Not Important	4Basic	4
Philosophy and Theology	Not Important	3Basic	4
Production and Processing	Not Important	4Basic	3
History and Archeology	Not Important	3Basic	3
Design	Not Important	2Basic	2
Engineering and Technology	Not Important	1 Basic	2
Mechanical	Not Important	3Basic	2
Economics and Accounting	Not Important	3Basic	2
Chemistry	Not Important	1 Basic	2
Building and Construction	Not Important	1 Basic	1
Transportation	Not Important	1 Basic	0
Physics	Not Important	0Basic	0
Sales and Marketing	Not Important	0Basic	0
Food Production	Not Important	0Basic	0
Fine Arts	Not Important	0Basic	0

Skill	Importance	Imp (0-100) Level	LvI (0-100)
Active Listening	Very Important	92 Expert	81
Reading Comprehension	Very Important	86Advanced	74
Time Management	Important	68Advanced	57
Writing	Important	66Advanced	55
Learning Strategies	Important	57 Advanced	55
Critical Thinking	Important	56Advanced	54
Active Learning	Important	63Advanced	54
Monitoring	Important	56 Intermediate	46
Judgment and Decision Making	Somewhat Important	43 Intermediate	41
Instructing	Somewhat Important	34 Intermediate	38
Coordination	Somewhat Important	42 Intermediate	38
Equipment Selection	Somewhat Important	41 Intermediate	34
Complex Problem Solving	Somewhat Important	34Intermediate	31
Quality Control Analysis	Somewhat Important	37 Intermediate	30
Troubleshooting	Somewhat Important	29Intermediate	28
Speaking	Somewhat Important	30Intermediate	27
Social Perceptiveness	Not Important	24Intermediate	26
Operation and Control	Not Important	24Basic	23
Mathematics	Not Important	24 Basic	23
Equipment Maintenance	Not Important	24Basic	19
Service Orientation	Not Important	22Basic	18
Technology Design	Not Important	15Basic	17
Operations Analysis	Not Important	13Basic	16
Persuasion	Not Important	15Basic	16
Negotiation	Not Important	15Basic	16
Operation Monitoring	Not Important	15Basic	13
Installation	Not Important	13Basic	12
Systems Analysis	Not Important	11Basic	11
Management of Material Resources	Not Important	13Basic	11
Science	Not Important	20Basic	10
Systems Evaluation	Not Important	9Basic	10
Management of Financial Resources	Not Important	8Basic	9
Management of Personnel Resources	Not Important	9Basic	9
Repairing	Not Important	8Basic	9 9 8 7
Programming	Not Important	7Basic	7

Occupational Abilities Ability	Importance	Imp (0-100) Level	LvI (0-100)
Oral Comprehension	Very Important	81Advanced	6
Written Expression	Important	69Advanced	5
Oral Expression	Important	66Advanced	5
Speech Recognition	Important	66Advanced	5
Written Comprehension	Important	72Advanced	5:
Near Vision	Important	66Advanced	52
Deductive Reasoning	Important	60Intermediate	46
Selective Attention	Important	56Intermediate	45
Inductive Reasoning	Important	56 Intermediate	45
Finger Dexterity	Important	66 Intermediate	43
Flexibility of Closure	Important	50Intermediate	4
Information Ordering	Important	50Intermediate	4
Perceptual Speed	Important	50Intermediate	4
Category Flexibility	Somewhat Important	47 Intermediate	4
Problem Sensitivity	Important	50Intermediate	39
Speech Clarity	Important	50Intermediate	39
Far Vision	Somewhat Important	31Intermediate	30
Manual Dexterity	Somewhat Important	38Intermediate	30
Auditory Attention	Somewhat Important	35Intermediate	29
Control Precision	Somewhat Important	35Intermediate	29
Memorization	Somewhat Important	38Intermediate	29
Arm-Hand Steadiness	Somewhat Important	35Intermediate	29
Fluency of Ideas	Somewhat Important	31Intermediate	27
Originality	Somewhat Important	25Intermediate	25
Speed of Closure	Somewhat Important	28Intermediate	25
Time Sharing	Somewhat Important	28Basic	23
Hearing Sensitivity	Not Important	22Basic	21
Mathematical Reasoning	Somewhat Important	25Basic	20
Visual Color Discrimination	Not Important	19Basic	18
Rate Control	Not Important	22Basic	18
Reaction Time	Not Important	19Basic	14
Wrist-Finger Speed	Not Important	22Basic	14
Number Facility	Not Important	16Basic	13
Visualization	Not Important	13Basic	11
Trunk Strength	Not Important	9Basic	7
Multilimb Coordination	Not Important	6Basic	
Speed of Limb Movement	Not Important	3Basic	4
Static Strength	Not Important	3Basic	
Stamina	Not Important	0Basic	2
Extent Flexibility	Not Important	0Basic	
Spatial Orientation	Not Important	0Basic	
Sound Localization	Not Important	0Basic	
Night Vision	Not Important	0Basic	
Dynamic Flexibility	Not Important	0Basic	
Peripheral Vision	Not Important	0Basic	0
Gross Body Coordination	Not Important	0Basic	
Explosive Strength	Not Important	0Basic	
Depth Perception	Not Important	0Basic	0
Response Orientation	Not Important	0Basic	
Gross Body Equilibrium	Not Important	0Basic	
Dynamic Strength	Not Important	0Basic	0
Glare Sensitivity	Not Important	0Basic	0
J.S. C Condition	Not important	Source: O*NET	

0 Basic 0 Source: O*NET Database 11

Occupational Skills Analysis 43-1011.00 - First-Line Supervisors/Managers of Office and Administrative Support Workers

Supervise and coordinate the activities of clerical and administrative support workers.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Customer and Personal Service	Very Important	79 Advanced	72
Education and Training	Important	62 Advanced	66
Administration and Management	Important	72 Advanced	66
Clerical	Important	61Advanced	65
Mathematics	Important	63 Advanced	61
English Language	Important	69Advanced	58
Computers and Electronics	Important	55Advanced	56
Personnel and Human Resources	Important	57 Advanced	53
Economics and Accounting	Important	51 Intermediate	47
Sales and Marketing	Somewhat Important	37 Intermediate	43
Psychology	Somewhat Important	41 Intermediate	40
Law and Government	Somewhat Important	41 Intermediate	40
Communications and Media	Somewhat Important	42 Intermediate	39
Public Safety and Security	Somewhat Important	43Intermediate	36
Production and Processing	Somewhat Important	32 Intermediate	33
Sociology and Anthropology	Somewhat Important	26 Intermediate	28
Therapy and Counseling	Not Important	23Intermediate	27
Philosophy and Theology	Not Important	20Basic	24
Telecommunications	Somewhat Important	29Basic	21
Transportation	Not Important	20 Basic	19
Geography	Not Important	16Basic	19
Design	Not Important	13Basic	17
Engineering and Technology	Not Important	14Basic	14
Foreign Language	Not Important	15Basic	14
History and Archeology	Not Important	12Basic	13
Chemistry	Not Important	9Basic	10
Mechanical	Not Important	10Basic	9
Medicine and Dentistry	Not Important	12 Basic	9
Fine Arts	Not Important	9Basic	8
Physics	Not Important	5Basic	6
Biology	Not Important	6Basic	6
Building and Construction	Not Important	7 Basic	9 9 8 6 6 6
Food Production	Not Important	4Basic	5

Skill	Importance	Imp (0-100) Level	LvI (0-100)
Monitoring	Very Important	76Advanced	71
Active Listening	Very Important	81 Advanced	69
Speaking	Very Important	80Advanced	69
Management of Personnel Resources	Important	74Advanced	69
Critical Thinking	Very Important	77Advanced	68
Reading Comprehension	Very Important	79Advanced	67
Judgment and Decision Making	Important	73Advanced	66
Instructing	Important	70Advanced	65
Learning Strategies	Important	60Advanced	64
Time Management	Very Important	76Advanced	64
Social Perceptiveness	Important	70Advanced	63
Active Learning	Important	69Advanced	63
Writing	Important	65Advanced	63
Service Orientation	Important	67Advanced	63
Persuasion	Important	60Advanced	61
Negotiation	Important	65Advanced	60
Complex Problem Solving	Important	66Advanced	60
Management of Financial Resources	Important	63Advanced	60
Coordination	Important	63Advanced	60
Equipment Selection	Important	54Advanced	55
Mathematics	Important	61Advanced	53
Management of Material Resources	Somewhat Important	47 Advanced	51
Operations Analysis	Somewhat Important	46Intermediate	49
Systems Evaluation	Somewhat Important	47 Intermediate	48
Systems Analysis	Somewhat Important	48 Intermediate	48
Quality Control Analysis	Somewhat Important	40Intermediate	40
Troubleshooting	Somewhat Important	38Intermediate	36
Operation and Control	Somewhat Important	35Intermediate	36
Technology Design	Somewhat Important	34 Intermediate	32
Installation	Somewhat Important	26Intermediate	25
Operation Monitoring	Somewhat Important	26Intermediate	25
Equipment Maintenance	Not Important	22Basic	22
Repairing	Not Important	21Basic	22
Programming	Not Important	20Basic	22 17
Science	Not Important	16Basic	16

Occupational Abilities			IN A DESTRUCTION
Ability	Importance	Imp (0-100) Level	LvI (0-100)
Oral Expression	Very Important	98 Advanced	64
Written Expression	Very Important	85 Advanced	62
Oral Comprehension	Very Important	90Advanced	61
Written Comprehension	Very Important	81 Advanced	60
Near Vision	Very Important	81 Advanced	59
Memorization	Important	56Advanced	56
Number Facility	Important	71Advanced	56
Speech Clarity	Very Important	77 Advanced	52
Information Ordering	Important	60Advanced	51
Mathematical Reasoning	Important	69Advanced	51
Speech Recognition	Important	63Advanced	51
Fluency of Ideas	Important	63 Intermediate	48
Problem Sensitivity	Important	63 Intermediate	48
Deductive Reasoning	Important	58 Intermediate	48
Inductive Reasoning	Important	60 Intermediate	46
Originality	Important	50 Intermediate	45
Perceptual Speed	Somewhat Important	48 Intermediate	44
Wrist-Finger Speed	Somewhat Important	46 Intermediate	44
Category Flexibility	Important	50Intermediate	43
Time Sharing	Important	60Intermediate	42
Speed of Closure	Somewhat Important	42Intermediate	40
Selective Attention	Important	56Intermediate	36
Flexibility of Closure	Somewhat Important	33Intermediate	35
Finger Dexterity	Somewhat Important	44Intermediate	34
Manual Dexterity	Somewhat Important	40Intermediate	31
Extent Flexibility	Somewhat Important	35Intermediate	31
Auditory Attention	Somewhat Important	46Intermediate	30
Arm-Hand Steadiness	Somewhat Important	33Intermediate	30
Trunk Strength	Somewhat Important	48Intermediate	27
Static Strength	Somewhat Important	25Intermediate	27
Spatial Orientation	Somewhat Important	35Intermediate	26
Visualization	Somewhat Important	33Intermediate	26
Response Orientation	Somewhat Important	31Intermediate	26
Hearing Sensitivity	Not Important	13Basic	24
Far Vision	Not Important	17Basic	23
Reaction Time	Not Important	19Basic	21
Sound Localization	Not Important	21Basic	21
Control Precision	Not Important	19Basic	21
Multilimb Coordination	Somewhat Important	25Basic	21
Peripheral Vision	Not Important	21Basic	20
Depth Perception	Not Important	8Basic	20
Visual Color Discrimination	Not Important	13Basic	19
Speed of Limb Movement	Not Important	15Basic	15
Explosive Strength	Not Important	6Basic	15
Glare Sensitivity	Not Important	10 Basic	15
Night Vision	Not Important	8Basic	13
Gross Body Coordination	Not Important	6Basic	13
Gross Body Equilibrium	Not Important	8Basic	12
Dynamic Flexibility	Not Important	2 Basic	11
Dynamic Strength	Not Important	6Basic	11
Stamina	Not Important	15Basic	
Rate Control	Not Important		10 7
rate control	inocimportant	2Basic	/

Occupational Skills Analysis 43-6013.00 - Medical Secretaries

Perform secretarial duties utilizing specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.

Occupational Knowledge

Knowledge	Importance	Imp (0-100) Level	LvI (0-100)
Customer and Personal Service	Very Important	84Advanced	72
English Language	Very Important	77 Advanced	65
Clerical	Very Important	81 Advanced	64
Computers and Electronics	Important	60 Advanced	59
Communications and Media	Important	52 Intermediate	46
Education and Training	Somewhat Important	44 Intermediate	46
Telecommunications	Important	59 Intermediate	45
Administration and Management	Somewhat Important	38 Intermediate	36
Public Safety and Security	Somewhat Important	34Intermediate	34
Mathematics	Somewhat Important	44 Intermediate	32
Transportation	Somewhat Important	36 Intermediate	31
Medicine and Dentistry	Somewhat Important	30Basic	24
Philosophy and Theology	Somewhat Important	28Basic	21
Sociology and Anthropology	Not Important	10Basic	21
Food Production	Not Important	16 Basic	19
Economics and Accounting	Not Important	16Basic	14
Law and Government	Not Important	12Basic	13
Production and Processing	Not Important	9Basic	10
Psychology	Not Important	9Basic	9
Personnel and Human Resources	Not Important	9Basic	7
Therapy and Counseling	Not Important	5Basic	7
Geography	Not Important	5Basic	5
Mechanical	Not Important	6Basic	3 3 3 3 3 3
Foreign Language	Not Important	5Basic	3
Chemistry	Not Important	2Basic	3
Sales and Marketing	Not Important	3Basic	3
Biology	Not Important	3Basic	3
Engineering and Technology	Not Important	2Basic	2
History and Archeology	Not Important	1 Basic	1
Design	Not Important	1 Basic	0
Fine Arts	Not Important	0Basic	0
Physics	Not Important	0Basic	0
Building and Construction	Not Important	0Basic	0

Skill	Importance	Imp (0-100) Level	Lvl (0-100)
Reading Comprehension	Very Important	89Advanced	68
Active Listening	Very Important	90Advanced	68
Writing	Important	56Advanced	63
Speaking	Very Important	82Advanced	62
Social Perceptiveness	Important	53Advanced	60
Time Management	Important	66Advanced	58
Instructing	Important	57 Advanced	57
Coordination	Important	70Advanced	56
Active Learning	Important	69Advanced	55
Learning Strategies	Important	54Advanced	54
Equipment Selection	Somewhat Important	36Advanced	53
Service Orientation	Important	55Intermediate	48
Management of Personnel Resources	Somewhat Important	29Intermediate	45
Monitoring	Somewhat Important	42 Intermediate	45
Management of Material Resources	Somewhat Important	45Intermediate	42
Judgment and Decision Making	Somewhat Important	38Intermediate	41
Operation and Control	Somewhat Important	43Intermediate	39
Negotiation	Somewhat Important	32 Intermediate	36
Critical Thinking	Somewhat Important	34Intermediate	35
Quality Control Analysis	Not Important	23Intermediate	30
Installation	Not Important	16Intermediate	28
Equipment Maintenance	Not Important	22Intermediate	28
Operation Monitoring	Not Important	15Intermediate	27
Technology Design	Not Important	20Intermediate	26
Persuasion	Somewhat Important	25Intermediate	25
Repairing	Not Important	16Basic	24
Systems Evaluation	Somewhat Important	25Basic	24
Complex Problem Solving	Not Important	22Basic	23
Mathematics	Somewhat Important	26Basic	22
Operations Analysis	Not Important	18Basic	20
Troubleshooting	Not Important	19Basic	18
Management of Financial Resources	Not Important	16Basic	16
Systems Analysis	Not Important	13Basic	13
Science	Not Important	15Basic	13 9 6
Programming	Not Important	5Basic	6

Ability	Importance	Imp (0-100) Level	Lvl (0-100)
Near Vision	Important	72Advanced	61
Oral Comprehension	Very Important	88Advanced	54
Oral Expression	Very Important	78Advanced	52
Information Ordering	Important	72Advanced	52
Written Comprehension	Important	56Advanced	52
Speech Recognition	Important	66Advanced	50
Category Flexibility	Important	50Intermediate	48
Problem Sensitivity	Important	53Intermediate	45
Deductive Reasoning	Important	50Intermediate	45
Written Expression	Important	53Intermediate	43
Speech Clarity	Very Important	75Intermediate	43
Inductive Reasoning	Important	50Intermediate	39
Originality	Somewhat Important	38Intermediate	38
Time Sharing	Important	53Intermediate	38
Number Facility	Somewhat Important	35Intermediate	36
Selective Attention	Important	53Intermediate	36
Auditory Attention	Somewhat Important	35Intermediate	34
Finger Dexterity	Somewhat Important	44Intermediate	34
Fluency of Ideas	Somewhat Important	35Intermediate	34
Trunk Strength	Somewhat Important	31Intermediate	32
Perceptual Speed	Somewhat Important	41Intermediate	32
Memorization	Somewhat Important	31Intermediate	30
Mathematical Reasoning	Somewhat Important	38Intermediate	29
Speed of Closure		25Intermediate	29
Far Vision	Somewhat Important	22Intermediate	29
	Not Important		27
Manual Dexterity	Somewhat Important	31Intermediate	
Flexibility of Closure	Somewhat Important	28 Intermediate	25
Arm-Hand Steadiness	Somewhat Important	35Intermediate	25
Wrist-Finger Speed	Not Important	16Basic	23
Control Precision	Not Important	22 Basic	21
Hearing Sensitivity	Not Important	19 Basic	20
Gross Body Coordination	Somewhat Important	25 Basic	18
Visual Color Discrimination	Not Important	19Basic	16
Visualization	Not Important	16Basic	16
Static Strength	Somewhat Important	25Basic	16
Multilimb Coordination	Not Important	22 Basic	16
Stamina	Not Important	22 Basic	14
Speed of Limb Movement	Not Important	19Basic	14
Depth Perception	Not Important	13Basic	9
Extent Flexibility	Not Important	3 Basic	4
Response Orientation	Not Important	6Basic	4
Reaction Time	Not Important	6Basic	2 2 0
Sound Localization	Not Important	3 Basic	2
Spatial Orientation	Not Important	0Basic	0
Night Vision	Not Important	0Basic	0
Dynamic Flexibility	Not Important	0Basic	0
Peripheral Vision	Not Important	0Basic	0
Explosive Strength	Not Important	0Basic	0
Gross Body Equilibrium	Not Important	0Basic	0
Dynamic Strength	Not Important	0Basic	0
Glare Sensitivity	Not Important	0Basic	0
Rate Control	Not Important	0Basic	0

Program Assessment Plan Medical Assisting

Statement of Purpose

This program is designed to prepare an individual for an entry-level position as a Medical Assistant in a private medical office, clinic or other healthcare facility. Clinical, Administrative and Trans disciplinary skills are included. The program also prepares the student for the nation A.A.M.A. certification exam.

Catalog Description

The Medical Assisting Certificate program is designed to prepare an individual for an entrylevel position as a Medical Assistant in a private medical office, clinic or other health care facility. Both clinical and administrative skills are included in the course work. On-the-job experience is provided by a total of 210 hours of externship placement with a licensed health care practitioner. The student may choose to complete an Associate in Applied Science Degree after completion of the Certificate in Medical Assisting. Upon completion of the certificate program the student will be prepared for the American Association of Medical Assistant's (AAMA) national certification exam to become a Certified Medical Assistant (CMA). The program also provides continuing education for employed medical assistants. The business administration area of instruction

will include medical law and ethics; scheduling appointments; telephone practices; processing mail; oral and written communication skills; including medical transcription, reports and manuscripts; responsibilities of office care and management; patient and insurance billing; financial records; payroll records and banking; and safety precautions. Students will also use word processing skills to develop job descriptions and office policy manuals. The clinical area of instruction will include Universal Standards, preparing the patient for exam; obtaining vital signs and medical histories; assisting with exams, treatments and surgeries; performing routine laboratory procedures; EKGs and other diagnostic procedures; sterilization procedures; instructing patients in preparation for x-rays and laboratory tests; venipuncture; administration of medications; proper charting and documentation; first aid; and patient education. The Medical Assisting one-year Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Curriculum Review Board (CRB) of the American Association of Medical Assistants' Endowment (AAMAE).

Program Assessment Plan Medical Assisting

Learning Outcomes

5.

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

	Benchmark	Assessment Method	Timeline
1.	Annual review by program faculty will show 80% of students will demonstrate proficiency in each course in each MDA course in both theory and skill with a grade of 78% or higher.	Written and practical exams are used to demonstrate competency in each area as recommended by the AAMAE's Medical Assistant Role Delineation. Mid-terms, Finals and lab evaluations are utilized. Under direct supervision of the Instructor or Clinical Instructor, students demonstrate competency in clinical skills as designated by the AAMA Medical Assistant Role Delineation.	11/07
2.	Annual review will show 80% of the graduates will pass the AAMA certification exam at the proficiency level of >= 500 as determined by the AAMA.	AAMA national CMA certification exam results.	11/07
3.	Annual review will show OCC graduate AAMA certification scores above 80 percentile compared to other students in the nation.	AAMA national certification results.	11/07
4.			

Source: OCC, Office of Assessment & Effectiveness (Assessment Database) Wednesday, September 05, 2007

Program Assessment Plan Medical Assisting

Learning Outcomes

During 210 hours of externship in health care facilities students will demonstrate proficiency in effective interpersonal communication, rendering patient care in a safe and compassionate manner, during office administration, and clinical practice.

Benchmark

1. Annual review by program faculty will show 80% of students will successfully complete externships with a final evaluation by the clinical site supervisor, documenting competencies according the "AAMA Role Delineation Study" of 78% or higher.

Assessment Method

Clinical facility externships site evaluations are completed by site supervisors. Site supervisors evaluate students on the practical skills demonstrated during the externship experience.

Timeline

11/07

2.

3.

4.

5.

Program Assessment Plan Medical Assisting

Learning Outcomes

Graduates will competently perform administrative, clinical and trans disciplinary skills as outlined by the AAMA Medical Assistant Role Delineation.

Benchmark

1. Annual review by the program faculty will show 80% of graduates and employers surveyed will report satisfactory or better, on a scale of 1-5 (very good to very poor) according to the AAMA Medical Assistant Role Delineations, regarding, employability preparation and education received.

2.

3.

4.

5.

Assessment Method

Timeline 11/07

Graduate and employer survey. Number of graduates will determine if this is appropriate method.

Source: OCC, Office of Assessment & Effectiveness (Assessment Database)

Wednesday, September 05, 2007

7-1-06 to 8-31-07

Statement of Purpose

This program is designed to prepare an individual for an entry-level position as a Medical Assistant in a private medical office, clinic or other healthcare facility. Clinical, Administrative and Trans disciplinary skills are included. The program also prepares the student for the nation A.A.M.A. certification exam.

Catalog Description

The Medical Assisting Certificate program is designed to prepare an individual for an entry-level position as a Medical Assistant in a private medical office, clinic or other healthcare facility. Both clinical and administrative skills are included in the course work. On-the-job experience is provided by a total of 210 hours of externship placement with a licensed healthcare practitioner. The student may choose to complete an Associate In Applied Science Degree after completion of the Certificate in Medical Assisting.

Upon completion of the certificate program the student will be prepared for the American Association of Medical Assistant's (AAMA) national certification exam to become a Certified Medical Assistant (CMA). The program also provides continuing education for employed medical assistants.

The business administration area of instruction will include medical law and ethics; scheduling appointments; telephone practices; processing mail; oral and written communication skills; including medical transcription, reports and manuscripts; responsibilities of office care and management; patient and insurance billing; financial records; payroll records and banking; and safety precautions. Students will also use word processing skills to develop job descriptions and office policy manuals.

The clinical area of instruction will include Universal Standards, preparing the patient for exam; obtaining vital signs and medical histories; assisting with exams, treatments and surgeries; performing routine laboratory procedures; EKGs and other diagnostic procedures; sterilization procedures; instructing patients in preparation for x-rays and laboratory tests; venipuncture; administration of medications; proper charting and documentation; first aid; and patient education.

The Medical Assisting one-year Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Curriculum Review Board (CRB) of the American Association of Medical Assistants' Endowment (AAMAE).

7-1-06 to 8-31-07

Learning Outcome ID 671

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 1

Annual review by program faculty will show 80% of students will demonstrate proficiency in each course in both theory and skill with a grade of 78% or higher.

Assessment Method 1

Written and practical exams are used to demonstrate competency in each area as recommended by the AAMAE's Medical Assistant Role Delineation. Mid-terms, Finals and lab evaluations are utilized. Under direct supervision of the Instructor or Clinical Instructor, students demonstrate competency in clinical skills as designated by the AAMA Medical Assistant Role Delineation.

Findings 1

All courses were measured with only one class falling below the benchmark of 80% passing. MDA 1170 – Medical Assisting Laboratory Procedures measured a 71% passing rate.

Benchmark Met 1		Dates
No	Assessed	11/06
	Received	11/06

7-1-06 to 8-31-07

Learning Outcome ID

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 1

Annual review will show 80% of students will demonstrate proficiency in each course with a grade of 78% or better.

Assessment Method 1

Written and practical exams are used to demonstrate competency in each area as recommended by the AAMAE's Medical Assistant Role Delineation. Mid-terms, Finals and Lab evaluations are utilized. Under direct supervision of the Instructor or Clinical Instructor, students demonstrate competency in clinical skills as designated by the AAMA Medical Assistant Role Delineation.

Findings 1

Assessment not implemented.

Benchmark Met 1

Dates

Unknown

Assessed

06/05

07/06 Received

Learning Outcome ID

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 2

Annual review will show 80% of the graduates will pass the AAMA certification exam at the proficiency level of >= 500 as determined by the AAMA.

Assessment Method 2

AAMA national CMA certification exam results.

Findings 2

There were 11 June graduates. All grads took the national exam to become a CMA and passed at the proficiency level of 500 or above.

Benchmark Met 2

Yes

Dates 11/06 Assessed

Received 11/06

7-1-06 to 8-31-07

Learning Outcome ID 671

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 2

Annual review will show 80% of the graduates will pass the AAMA certification exam.

Assessment Method 2	Findings 2	Benchmark Met 2		Dates
AAMA national CMA certification exam results	Assessment not implemented.	Unknown	Assessed	06/05
			Received	07/06

Learning Outcome ID 671

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 3

Annual review will show OCC graduate AAMA certification scores above 80 percentile compared to other students in the nation.

Assessment Method 3	Findings 3	Benchmark Met 3	Dates
AAMA national certification results.	The average national score was 500. OCC's average student exam score was 615, which put OCC students at the 99th percentile in the nation	Yes	•

7-1-06 to 8-31-07

Learning Outcome ID 671

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 3

Annual review will show OCC graduate AAMA certification scores above 80 percentile.

Assessment	t	Method	13
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Findings 3

Benchmark Met 3

Dates

AAMA national certification results.

Assessment not implemented.

Unknown

Assessed 06/05

Received 07/06

7-1-06 to 8-31-07

Learning Outcome ID 672

During 210 hours of externship in health care facilities students will demonstrate proficiency in effective interpersonal communication, rendering patient care in a safe and compassionate manner, during office administration, and clinical practice.

Benchmark 1

Annual review by program faculty will show 80% of students will successfully complete externships with a final evaluation by the clinical site supervisor, documenting competencies according the "AAMA Role Delineation Study" of 78% or higher.

Demonstrate knowledge of federal and state

Assessment Method 1

Clinical facility externships site evaluations are completed by site supervisors. Site supervisors evaluate students on the practical skills demonstrated during the externship experience.

Findings 1 **Benchmark Met 1** Examples of the assessment are: Yes Assessed Respond to and initiate written communications Received 11/06 Recognize and respond to verbal communications Recognize and respond to nonverbal communications Demonstrate telephone techniques Identify and respond to issues of confidentiality Perform within legal and ethical boundaries Establish and maintain the medical record

Dates

11/06

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Wednesday, September 05, 2007

Document appropriately

health legislation and regulations

7-1-06 to 8-31-07

Learning Outcome ID 672

During 210 hours of externship in health care facilities students will demonstrate proficiency in effective interpersonal communication, rendering patient care in a safe and compassionate manner, during office administration, and clinical practice.

Benchmark 1

Annual review will show 80% of students will successfully complete externships with a final evaluation by the site supervisor of 78% or better.

Assessment Method 1	Findings 1	Benchmark Met 1		Dates
Externship site evaluations of students by, site	Assessment not implemented.	Unknown	Assessed	06/05
supervisors. Site supervisors evaluate students			Received	07/06
on the practical skills demonstrated in the				•
externship experience.				

Wednesday, September 05, 2007
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7-1-06 to 8-31-07

Learning Outcome ID

Graduates will competently perform administrative, clinical and trans disciplinary skills as outlined by the AAMA Medical Assistant Role Delineation.

Benchmark 1

Annual review by the program faculty will show 80% of graduates and employers surveyed will report satisfactory or better, on a scale of 1-5 (very good to very poor) according to the AAMA Medical Assistant Role Delineations, regarding, employability preparation and education received.

Assessment Method 1

Graduate and employer survey. Number of graduates will determine if this is appropriate method.

Findings 1

The most recent survey of the six graduates from 04/05 resulted in three responses (50% response rate). All responses according to preparation for employment in the competencies according to the AAMA Role Delineation were positive. The most recent survey of employers from that same graduate class produced two responses. All areas were positive for employee preparation according to the AAMA competencies from the Role Delineation Chart.

Benchmark Met 1

Dates

Assessed

11/06

Received 11/06

7-1-06 to 8-31-07

Learning Outcome ID 673

Graduates will competently perform administrative, clinical and trans disciplinary skills as outlined by the AAMA Medical Assistant Role Delineation.

Benchmark 1

Annual review will show 80% of graduates surveyed will report satisfactory or better, according to the AAMA Medical Assistant Role Delineation, regarding, employability preparation and education received.

Assessment Method 1	Findings 1	Benchmark Met 1		Dates
Graduate survey. Number of graduates will	Assessment not implemented.	Unknown	Assessed	06/05
determine if this is appropriate method.			Received	07/06

Learning Outcome ID 673

Graduates will competently perform administrative, clinical and trans disciplinary skills as outlined by the AAMA Medical Assistant Role Delineation.

Benchmark 2

No benchmark provided.

Assessment Method 2	Findings 2	Benchmark Met 2		Dates
Employer survey.	Assessment not implemented.	Unknown	Assessed	06/06
			Received	05/07

Wednesday, September 05, 2007

7-1-06 to 8-31-07

Learning Outcome ID 673

Graduates will competently perform administrative, clinical and trans disciplinary skills as outlined by the AAMA Medical Assistant Role Delineation.

Benchmark 2

Annual review will show 80% of employers surveyed will report satisfactory or better, according to the AAMA Medical Assistant Role Delineation, regarding, readiness of graduates for employment and training received.

Assessment Method 2	Findings 2	Benchmark Met 2		Dates
Employer survey.	Assessment not implemented.	Unknown	Assessed	06/05
			Received	07/06

Wednesday, September 05, 2007 Page 10 of 10

Program Assessment Findings Medical Assisting

Catalog Description

The Medical Assisting Certificate program is designed to prepare an individual for an entry-level position as a Medical Assistant in a private medical office, clinic or other healthcare facility. Both clinical and administrative skills are included in the course work. On-the-job experience is provided by a total of 210 hours of externship placement with a licensed healthcare practitioner. The student may choose to complete an Associate In Applied Science Degree after completion of the Certificate in Medical Assisting.

Upon completion of the certificate program the student will be prepared for the American Association of Medical Assistant's (AAMA) national certification exam to become a Certified Medical Assistant (CMA). The program also provides continuing education for employed medical assistants. The business administration area of instruction will include medical law and ethics; scheduling appointments; telephone practices; processing mail; oral and written communication skills; including medical transcription, reports and manuscripts; responsibilities of office care and management; patient and insurance billing; financial records; payroll records and banking; and safety precautions. Students will also use word processing skills to develop job descriptions and office policy manuals. The clinical area of instruction will include Universal Standards, preparing the patient for exam; obtaining vital signs and medical histories; assisting with exams, treatments and surgeries; performing routine laboratory procedures; EKGs and other diagnostic procedures; sterilization procedures; instructing patients in preparation for x-rays and laboratory tests; venipuncture; administration of medications; proper charting and documentation; first aid; and patient education. The Medical Assisting one-year Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Curriculum Review Board (CRB) of the American Association of Medical Assistants' Endowment (AAMAE).

Program Statement of Purpose

This program is designed to prepare an individual for an entry-level position as a Medical Assistant in a private medical office, clinic or other healthcare facility. Clinical, Administrative and Trans disciplinary skills are included. The program also prepares the student for the nation A.A.M.A. certification exam.

Learning Outcome

Students will demonstrate proficiency in Administrative, Clinical and Trans disciplinary competencies.

Benchmark 1

Annual review by program faculty will show 80% of students will demonstrate proficiency in each course in both theory and skill with a grade of 78% or higher.

Assessment Method 1

Written and practical exams are used to demonstrate competency in each area as recommended by the AAMAE's Medical Assistant Role Delineation. Mid-terms, Finals and lab evaluations are utilized. Under direct supervision of the Instructor or Clinical Instructor, students demonstrate competency in clinical skills as designated by the AAMA Medical Assistant Role Delineation.

Benchmark Scheduled To Be Assessed:

11/1/2006

Assessment Results Sent To Office of Assessment Effectiveness:

12/1/2006

Findings 1

All courses were measured with only one class falling below the benchmark of 80% passing. MDA 1170 – Medical Assisting Laboratory Procedures measured a 71% passing rate.

Will changes be made to the way in which the information is presented to students as a result of these findings?

Yes

If Yes, specifically what changes will be made?

There will be a textbook change starting with the next rotation of MDA 1170.

When will these changes be completed?

1/1/2007

Marketing Plan

Oakland Community College Medical Assisting Certificates of Achievement

July 2003 – July 2005

EXECUTIVE SUMMARY

When examined in late 2002, the Oakland Community College Medical Assisting Program was found to be an ill fit in a crowded and confusing marketplace. It simply could not be expected to compete against the predominant market leaders, the trade schools that offered training in a short amount of time. As a result of those startling findings, the college has taken great strides to repackage the product into a series of shorter modular training packages, essentially offering a more competitive product. The time has come now to introduce the product – Certificates of Achievements - to the marketplace, and to reap the benefits of a better fit.

While the college can change the product it offers, there are some things it cannot change — such as the pay scale and lack of value that employers put on the training. But the new product offers many benefits including the opportunity to market what is essentially a group of options or a "mini-cluster." Students can now determine the specific skills they want, what area to specialize in or even the option of continuing on to meet the requirements of the associates degree. This new approach in customized training will prove its value with a variety of target markets.

The focus of this two-year plan is to identify and reach out to those markets best suited for this type of training. These markets include those who need employment in the short term, those looking to re-enter the workforce and those interested in the medical field but are not interested in a four-year degree or more. The messages that OCC offers training that is flexible, short—term and affordable combined with the growing need for Medical Assistants will resound with these target groups. An investment of \$30,000 over the next two years is needed to not only raise awareness of the benefits of the OCC Medical Assistant program, but also to firmly establish a hold in the marketplace.

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REVIEW OF FINDINGS

In August 2002 the program marketing committee conducted a comprehensive review of the OCC Medical Assisting program. The assessment included a historical perspective of the number of degrees and certificates granted, a situational analysis of the program's position in the marketplace and an analysis of the competition. In addition, research was compiled on the labor market through surveys of employers, interviews with members of medical associations and boards, and focus groups with working medical assistants.

It was determined that without changes to the OCC product, extensive marketing efforts would be futile. The resulting plan called for limited marketing of the existing product to internal and restrictive geographical markets, with a focus on repackaging the product before expanding to new markets. The results of the research have not changed significantly over the last seven months and still serve as the basis for this longer-term marketing plan.

HISTORY

The MDA program granted 57 degrees over the past ten years. When looking at a ten-year trend, the most significant decline occurred in the past five years. During that period, there has been a 24% decrease in credit hours and a 75% decline in the number of degrees awarded. Credit hour enrollment peaked in 1994-95 with 1,359 credit hours. Since that period hours have decreased 24% to 796 total credit hours in 2000-01. The program awarded only four certificates and two degrees in the academic year 2000-01. It currently ranks 53rd out of 69 OCC programs that granted degrees in 2000-01.

SITUATIONAL ANALYSIS

The Medical Assisting marketplace has not changed since it was first examined in August 2002. The market continues to be dominated by the private career schools that have a strong presence in southeast Oakland and Wayne counties. While the program does benefit from OCC's name recognition with students and employers, it was found that the products offered by the college - particularly the extended associate degree - were not competitive. For students, the shorter training options at the career schools are more attractive. Employers showed no preference for a two-year degree over other types of training. (Figure 1)

Based on the situational analysis, the marketing committee recommended that the MA Program repackage its product into smaller skills components in order to be more competitive. The department worked diligently and quickly to follow through with this recommendation, and created five mini certificates recently approved by the college. This product re-tuning is now the program's greatest opportunity to increase market share.

Figure 1 – SWOT Analysis

	Strength	Weakness	Opportunity	Threat
Program	CAAHEP accreditation	Low number of degrees/certificates granted	New product: individual certificates of	Assoc. Degree not required for
	OCC name recognition	Career schools	achievement	employment/ low valuation
	Ophthalmology option	have better image with employers	Emphasize Affordability, short completion time	
Students	High employment rate of graduates in the field (within three months)	Low completion rate Minority students under-represented	Target minority population	Students shopping patterns – want quick product, cost not a factor
Location	HL service area penetration high	Offered only at Highland Lakes	Increase locations, offer courses at SF	Competitors have multi- campuses
Competition	Shorter term programs appeal to market	Career school & university programs are costly	Only Ross has presence in Livingston County	Competitors have 91% of market share Competitors market aggressively
Labor Market	Plenty of jobs – expected growth through 2008	Low hourly wage (\$11/hr.) Little opportunity for advancement	Specialized training for Ophthalmology assistants	Employers do not value certification or degree credential

NEW PRODUCTS

The five new components that OCC will offer beginning in the Fall, 2003 semester are:

- Phlebotomy
- Medical Insurance Coding & Billing
- Opthalmic Assisting
- Medical Office Clinical Procedures
- Medical Office Administrative Procedures.

Potential students seeking to obtain marketable skills in a short amount of time will view the new shorter program options as a benefit. The awarding of certificates will also benefit the program in terms of number of successful completors. Previously, the program awarded certificates of achievement for individual skill sets but the certificates were not sanctioned by the college. Now that the department has taken the program options through the curriculum review process, the certificates will provide a more accurate tracking measurement of graduates other than traditional associate degree or one-year certificate completors. The new program options consist of 4-8 courses, resulting in 10-20 credits. The approved program options are shown in Figure 2.

Program Options: Figure 2

Phlebotomy		C., 1:4-
Required cours		Credits
MED 1103	Medical Terminology	3
MDA 1250 MDA 1170	Phlebotomy Medical Laboratory Procedures	1 3
MDA 1170 MDA 1350	Medical Laboratory Procedures Medical Law & Ethics	3
MIDA 1330	Total Credits	10
(Figure 2 – con		10
	e Administrative Procedures	Cradita
Required cours		Credits
MED 1103 MDA 1051	Medical Assisting Administrative Precedures	3 4
MDA 1031 MDA 1350	Medical Assisting – Administrative Procedures Medical Law & Ethics	3
CIS 1000	Computer Literacy	1
BIS 2100	Advanced Applications	1
BIS 2170	Introduction to an Integrated Package	<u>1</u>
DIS 2170	Total Credits	13
	Total Cicalis	15
Medical Insur	rance Coding & Billing	
Required cours		Credits
MED 1103	Medical Terminology	3
MDA 1350	Medical Law & Ethics	3
MDA 2380	Medical Office Insurance Coding and Billing	4
CIS 1000	Computer Literacy	1
BIS 2107	Introduction to an Integrated Package	1
BIS 2108	Applications of an Integrated Package	<u>1</u>
	Total Credits	16
Omtholmia Aa	odotla o	
Opthalmic As Required cours		Credits
MED 1103	Medical Terminology	3
MDA 1250	Phlebotomy	1
MDA 1350	Medical Law & Ethics	3
MDA 2010	Medical Office Medications	3
MDA 2410	Ophthalmic Assisting I	3
MDA 2420	Ophthalmic Assisting II	<u>3</u>
1,12,12,120	Total Credits	<u>5</u> 16
	e Clinical Procedures	
Required cours		Credits
MED 1103	Medical Terminology	3
MDA 1140	Medical Assisting Clinical Procedures	3
MDA 1170	Medical Assisting Laboratory Procedures	3
MDA 1200	Basic X-ray Techniques and Spirometry	1
MDA 1250	Phlebotomy	1
MDA 1350	Medical Law & Ethics	3 3
MDA 1570	Basic Electrocardiography	3
MDA 2010	Medical Office Medications	3
	Total Credits	20

COMPETITORS

In the research conducted in 2002, 11 competitors were identified. They consist of 4-year colleges, community colleges and the career schools.

4-year Colleges Baker

Community Colleges
Henry Ford Community College
Macomb Community College
Oakland Community College
Schoolcraft Community College

Career Schools
Carnegie Institute
Detroit Business Institute
Dorsey Business School
Lawton School
Metro Technical Institute
National Institute of Technology
Ross Medical Education Center

The key competitors and the focus of this marketing plan are the career schools, which graduate 91% of the medical assistants in southeast Michigan. As seen in IPEDS data, the top producer of graduates in 2001 was National Institute of Technology, with 274. Located in Southfield, NIT is owned by Corinthian Schools, Inc., which operates over 55 career schools nationwide. The NIT medical assisting program consists of 720 clock hours of hands-on training and students complete in eight months.

The Ross Medical Education system is the second highest producer of graduates, with 262. Ross has locations in Macomb, Livingston, Washtenaw, Genesee, Wayne and Ingham counties. It has been in the marketplace for 25 years and has high name recognition. Although it no longer offers classes in Oakland County, Ross recruits heavily from the area. Students may take the Ross medical assisting program days or evenings and complete in 30 weeks.

Combined, NIT and Ross account for 60% of the market. They continue to have a strong marketing presence, primarily through television ads airing on local and cable stations throughout the day.

COMPETITIVE POSITIONING

With the shorter program options, OCC is now more prepared to compete with the career schools in each of the four "P's of marketing": product, price, place and promotion. As stated before, significant changes have been made to the <u>product</u> offering. Four of the five options – Medical Insurance Coding & Billing; Phlebotomy; Opthalmic Assisting; and Medical Office Administrative Procedures – are designed so that students can complete all required courses for one certificate in a single semester. Only Medical Office Clinical Procedures, which consists of eight classes, would take two or more semesters. Thus, the completion time is now a matter of months, as opposed to years. (Appendix 1). The shorter timeframe, combined with the substantial cost difference could make for a very competitive message.

In addition to a shorter completion time, the OCC offerings also feature a competitive positioning advantage in the area of <u>price</u>. Although it was found that students tended not to compare costs, the issue of pricing is veiled by competitors that offer financial assistance and tuition payment plans. The career schools engage in more personal selling and the approach is hard sell. Students are given tours, meet with program supervisors and in some cases are pressured to register before they leave the appointment. The cost for training at NIT is \$8,850. A student completing the program at Ross will pay \$7,000. The cost doubles when pursuing an associate degree at Baker. In comparison, an in-district student choosing the phlebotomy option at OCC would pay

approximately only \$517. The cost to complete all options at OCC is approximately \$3,722.40 – half of the cost of the competition. (Figure 3) The messages that are conveyed by all career schools are that the training is quick and jobs are plentiful. OCC's competitive message is that the training is quick, very affordable, and jobs are plentiful.

With five campuses, OCC has the advantage over the career schools when it comes to place. To compete with Dorsey and NIT and others, OCC's Medical Assisting certificates need to be offered at the Southfield Campus in addition to Highland Lakes. The Southfield Campus is geographically located in the more densely populated center of Oakland County, where the competition continues to draw its market share. The Southfield Campus also is already established as a medical training site, as many OCC health professions and technologies programs are offered there. It is recommended that the MDA certificates begin to be offered at Southfield in Winter 2003. The new location would be advertised to the surrounding area with newspaper ads in local and major papers.

Now that OCC's MDA program has the positioning edge in the areas of product, price and place, the attention of this plan can turn to the final "p", promotion.

Figure 3 – Competitive Analysis

School	Product	Accreditation	Length of Program	Location	Cost	# of graduates (2001)
Baker	Associate Applied Science	СААНЕР	2 years	Auburn Hills Flint Clinton Twp.	\$14,020	24
Carnegie	Diploma	CAAHEP ACCSCT*	1 year	Troy	\$7,675	56
Detroit Business Inst.	Diploma	ACICS**	8 months	Southfield	\$6,400	32
Dorsey	Diploma	ACICS	1 year	Madison Hts. Roseville Southgate Wayne	\$8,000 - \$9,000	86
HFCC	Certificate	CAAHEP	1 year	Dearborn	\$2,347	5
Lawton School	Diploma	ACCSCT	34 weeks	Southfield	\$6,000	79
MCC	Associate Applied Science Certificate	СААНЕР	2 yrs. 1 yr.	Clinton Twp.	\$3,6636 \$2,292	32
Metro Technical Inst.	Diploma	ACCSCT	9 months	Oak Park	\$6,500	32
National Inst. Technology	Diploma	CAAHEP ACCSCT	8 months	Southfield Dearborn	\$8,850	274
OCC	Associate Applied Science; Certificate	СААНЕР	2 yrs. 1 yr.	Waterford	\$4,129 \$2,670	6
	Certificates Of Completion		4-8 months		\$517 - \$1,034	
Ross	Diploma	ABHES ACCSCT	30 weeks	Warren Brighton Flint Lansing Redford Ann Arbor	\$7,000	262
Schoolcraft	Certificate	CAAHEP	1 year	Livonia	\$2,700	5

TARGET MARKET

Among the benefits that the MDA career track offers is that there is high demand for assistants, and it provides entry into the medical field without a four-year degree.

Another attractive element is that the most common jobs for MAs in doctors' offices, clinics and hospitals offer flexible schedules, full or part time. Using these characteristics, target markets can be defined as follows:

- 1.) Employable: These are people who are currently not working, and are seeking jobs for financial reasons. This group needs to work, and cannot invest in long-term training options.
- 2.) Returnees: This group consists of women who desire to work, but also want a job that they can fit around their family life. These women have younger children, and are either ready to re-enter the workforce now or are ready to begin training to prepare to enter the work force in the near future.

Traditionally, the typical MDA student is female (96%). There is no evidence to suggest that males represent a market for this program. Therefore, all suggested targets for this plan are female.

STRATEGIES

Three distinct strategies have been identified to raise awareness of the new MDA program options. The strategies will use traditional mass media, internal marketing components, and also test the use of targeted marketing with smaller groups.

I. Newspaper & Employment Outreach

- a.) The primary effort of the marketing plan will be to reach those seeking employment in the medical field. This target market, the Employable, are defined as those actively seeking a job and may be reached through common vehicles used in the job search including classifies ads and the Michigan Works offices.
- b.) Mass media campaign: The MDA program can reach out directly to this population by marketing in vehicles designed for job seekers. The primary vehicles are the Sunday Detroit News and Free Press classified section, its companion publication MICareerBuilder, and other regional newspapers including the Observer & Eccentric and the Oakland Press. Display ads would be scheduled to begin in these publications in August 2003, and will continue on a pulsing schedule throughout the two years of the plan. (A detailed timeline is given in the next section of the plan.) The ads will stress the short completion time and low cost compared to the competition. The use of this medium was tested in May 2003, when the Health Professions and Technologies programs held a career fair. The newspaper ads resulted in a high, and

immediate, response rate. It is recommended that a total of \$20,000 be allocated for newspaper display ads over the course of two years.

c.) OCC's Workforce Development group is also a valuable internal link to this audience. The Recruitment, Screening and Certification department works with job seekers as well as employers. Its work with the Work First program would be a nice fit for the MDA program.

Work First clients are in need of short- term training options that result in:

- * skills leading to immediate employment opportunities
- * credentials (transcripted on student records)
- * options to continue education part-time

The MDA certificates of achievements fulfill all of these requirements and thus could be very attractive to this population. The MDA program director needs to partner with the Workforce Development group to develop strategies to best promote the available training options.

II. Direct Marketing:

While the newspaper ad strategy will cover a large market, a pilot strategy will be implemented to test the effectiveness of targeting the MA certificates to a more specific group. This group will reflect the profile of current MDA students who are female, may be single heads of households or have young children about to enter school. Using census data, the college's Office of Institutional Research will compile a mailing list of a minimum of 10,000 names. The list will consist of women in various Oakland County zip codes surrounding the Highland and Southfield. These women would receive a postcard with the message that the training is quick, affordable and jobs are waiting. Delivery of the postcard would be scheduled for October, and would stress that most options can be completed in the upcoming winter semester. A benchmark for the mailing of a 5% response rate will be established. If it is successful, the marketing plan will be reviewed for Year II and some advertising money may be transferred to conduct a second postcard mailing.

Costs: A budget of \$5,000 should be allocated for this mailing.

III. Marketing Support

A budget must be allocated for the creation and printing of a customized brochure explaining the five new certificate options and the career opportunities. This brochure may be used for the workforce development initiatives as well as a general piece used by the Medical Assisting department in response to inquiries. The recommended budget iss \$5000.00

In addition to a new brochure, a broad advertising campaign and a targeted direct mail initiative, the college will continue to support the Medical Assisting department with

the establishment of a website and inclusion in all marketing efforts which promote the Health Professions and Technologies cluster.

The MDA program coordinator will provide materials for the website immediately upon acceptance of the marketing plan. The website address will then be included on all marketing materials and messages through July 2005.

TIMELINE

Following is a timeline for execution of the marketing strategies. Evaluation will be conducted of each strategy following implementation.

Year I: July 2003 - July 2004

July 2003 Adoption of marketing plan & budget

August Newspaper ads in Detroit News & Oakland Press (\$2500)

Obtain mail list from IR

Design postcards for direct marketing strategy (graphics)

Sept Classes begin at HL

Evaluate: response from newspaper ads/report to PMT

Design brochure (graphics)

October Newspaper ads (\$2,000)

Direct Marketing mailing hits homes (\$5,000)

(promote classes at HL& SF for winter)

Brochure printed (\$5,000)

November Newspaper ads (\$2,000)

Website completed

Distribute brochure to counselors, etc.

Dec Evaluate response to direct mail/newspaper ads

Report to PMT

Jan Begin offering classes at SF

Measure enrollment response 1/10 day count

Feb PMT: 6-month benchmark assessment report

March Work First initiative (with Workforce Development)

April Newspaper ads (\$2000)

May

June Newspaper ads (\$1500)

July Evaluate 1st year initiatives

August Newspaper ads (\$2500)

Sept. Evaluate newspaper ad response

Enrollment report: 1/10 day count

Oct. Newspaper ads (\$2000)

Promote winter offering at HL & SF

Nov. Newspaper ads (\$2000)

Promote winter offering at HL& SF

Dec. Evaluate response to newspaper ads

Report to PMT

Jan. 2005 Offer classes at SF & HL

18 month benchmark assessment

Feb. Newspaper ads (\$1000)

March Newspaper ads (\$1500)

April Newspaper ads (\$1000)

May

June

July Final assessment report of two-year marketing plan

FINANCIAL ANALYSIS

The single most important task when rolling out a new product is to get the word out, and to do so comes with a price tag. The cost of the strategies totals \$30,000 over a period of two years.

Year I:

July 2003 – July 2004

\$5,000

brochure development

\$5,000

target mailing initiative

\$10,000

newspaper ads/Workforce development activities

\$20,000

Year II:

July 2004 – July 2005

\$10,000

newspaper ads

This investment will not only get the word out, but will raise awareness with those most likely to seek out the shorter-term medical assisting training. Research has proven that the market for the MDA training is broad, and not easy to segment.

Therefore, the use of mass media seems to be the most appropriate and requires the largest percentage of the proposed budget. Swift adoption of the plan and the entire proposed budget is crucial for the product to begin to take hold in the marketplace.

GOALS & OBJECTIVES

While the objective of introducing a new product to the marketplace often is achieved through building awareness and image, the measurement of success will be actual response to the messages and enrollment in MDA courses.

Benchmarks will be set in the following manner:

1.) Response rates:

A.) Newspaper and Employment Outreach

The newspaper ad campaigns are clustered so as to maximize the awareness of the MDA certificates just prior to the start of the fall and winter semesters. After each campaign, the program will track response rates in the form of telephone and website inquiries. These measurements will occur in September and December 2003, and again in September and December 2004. A response rate of 3 percent is desirable for each independent campaign. If the response rate is not 3 percent or higher, changes may be made to the media buys for the following campaign. For example, it may be found that local papers elicit more response than the Detroit News and Free Press in certain zip codes, or vice versa.

B.) Direct Marketing Response

Following the direct marketing of the postcard to the identified list in October, a measure of response will be taken. Responses will be tracked through a pilot phone number. A 5% response rate is the minimum that will be considered successful. The program coordinator will provide a report on the success of the mailing to the program marketing team in December 2003.

2.) Enrollment measures

With promotional strategies in place beginning summer 2003, it is expected that enrollment may be impacted as early as Fall 2003.

Measurements will be taken for each semester, using the 1/10 official

count. The enrollment measurement will be defined as total number of students taking each course with the prefix "MDA", with the exception of MDA 1350. (MDA 1350, Medical Law and Ethics, is not exclusive to MDA; students in all health programs, including nursing are required to take this class.) Enrollment will be measured each semester a course is offered, beginning with the Winter semester. For Winter 2004, an increase of 40% over Winter 2003 is expected with the new class offerings at Southfield, the direct mail postcard campaign and consistent newspaper ads. A cumulative increase of 60% is expected in the first year of the plan; followed by an increase of an additional 40% in Year 2.

APPENDIX 1

MEDICAL ASSISTING OPTIONS

Students who choose to pursue one of the Medical Assisting Options should meet with the Program Coordinator to declare their intent.

The options to the Medical Assisting Program are designed for students who require marketable skills for employment. Students completing any of the options may continue their college education, and upon successful completion of designated courses with a C or better, receive their One-year Certificate or Associate Degree in Applied Science. The options are the first "building-block" toward that goal.

*Most of the options can be completed in one semester, but students may continue at their own pace.

MEDICAL OFFICE ADMINISTRATIVE PROCEDURES

(This option can be completed in the Fall Semester.)

Required courses:			
Offered			
MED 1103	Medical Terminology	3	F/W/S
MDA 1051	Administrative Procedures #1	4	F
MDA 1350	Medical Law and Ethics	3	F/W
CIS 1000	Word Processing Applications	1	F
BIS 2100*	Advanced Applications		
	*Medical Transcription (Highland Lakes Campus Only)	1	\mathbf{F}
BIS 2107*	Introduction to an Integrated Package		
	*Computerized Office Billing Pkg (Highland Lakes Can	ıpus O	nly) 1 F
	TOTAL CREDITS	13	3

Winter)

MEDICAL OFFICE CLINICAL PROCEDURES

Required courses: MED 1103 3 E/W/S Medical Terminology

(This option can be completed in two semesters - Fall and

MILD 1103	Medical Terminology	J F/W/S
MDA 1140	Medical Assisting Clinical Procedures I	3 F
MDA 1200	Basic X-ray and Spirometry	1 F
MDA 1250	Phlebotomy	1 F/W
MDA 1170	Medical Assisting Laboratory Procedures	3 W
MDA 1570	Basic Electrocardiography	3 F
MDA 2010	Medical Office Medications	3 W
MDA 1350	Medical Law and Ethics	3 F/W
	TOTAL CREDITS	20

Note: The student must meet with a counselor to verify eligibility to receive a Certificate of Achievement.

® A student must achieve a minimum grade of "C" to successfully complete a required course.

MEDICAL INSURANCE CODING & BILLING

(This option can be completed in the Winter Semester.)

Required courses:

CIS 1000	Computer Literacy	1	F/W
MED 1103	Medical Terminology	3	F/W/S
MDA 1350	Medical Law and Ethics	3	F/W
MDA 2380	Medical Office Coding & Insurance Billing	4	\mathbf{W}
BIS 2107*	Introduction to an Integrated Package		
	*Computerized Office Billing (Highland Lakes Campus Only)	1	F/W
BIS 2108	Integrated Package Applications		
	*BCBS Computer Billing Package (Highland Lakes Campus Only	(v) 1	\mathbf{W}
	TOTAL CREDITS	13	

PHLEBOTOMY

(This option can be completed in the Winter Semester.)

Required courses:

recquired courses	•	
MED 1103	Medical Terminology	3 F/W/S
MDA 1250	Phlebotomy	1 F/W
MDA 1170	Medical Assisting Laboratory Procedures	3 W
MDA 1350	Medical Law and Ethics	3 F/W
	TOTAL CREDITS	10

OPHTHALMIC ASSISTING

(This option can be completed in the Winter Semester.)

Required courses:

required courses.		
MED 1103	Medical Terminology	3 F/W/S
MDA 1250	Phlebotomy	1 F/W
MDA 2010	Medical Office Medications	3 W
MDA 2410	Ophthalmic Assisting Procedures I	3 F/W
MDA 2420	Ophthalmic Assisting Procedures II	3 F/ W
MDA 1350	Medical Law and Ethics	3 F/W
	TOTAL CREDITS	16

<u>Note</u>: The student must meet with a counselor to verify eligibility to receive a Certificate of Achievement.

® A student must achieve a minimum grade of "C" to <u>successfully complete a required course.</u>



Curriculum Review Committee

Medical Assisting
Faculty Coordinator: Karen Kittle
December 7, 2007

- Appears there has been an issue for MDA students to be able to register due to priority registration (not enough credits), and waitlist students for other Allied Health program. Faculty coordinator has worked with College Curriculum Committee and the Dean to address this issue.
- MDA will reconsider offering administrative courses and lab courses at SF. Faculty coordinator will work with the Southfield Dean and the Dean of Allied Health. If program is to be increases the college will need to support the added need for faculty, resources, and support for an expanding accreditation process.
- Consider adding sections of Phlebotomy and Medical Billing and Coding to meet the student needs.
- The MDA website needs to be update and CRC recommends the faculty coordinator work with the Office of Assessment & Effectiveness.
- Course Description for MDA 2010 needs revision, and MDA 2460 needs prerequisite update.
- Consider an entrance exam (assessment) for all Allied Heath programs to determine if students might need to develop more critical thinking skills before entrance into the program.
- Consider placing into the program catalogue description a strong recommendation for a required level of Math, English and Critical Thinking skills necessary to be a successful student.



Curriculum Review Committee

Medical Assisting

Faculty Coordinator: Karen Kittle

December 7, 2007

- Appears there has been an issue for MDA students to be able to register due to priority registration (not enough credits), and waitlist students for other Allied Health program. Faculty coordinator has worked with College Curriculum Committee and the Dean to address this issue.
- MDA will reconsider offering administrative courses and lab courses at SF. Faculty coordinator will work with the Southfield Dean and the Dean of Allied Health. If program is to be increases the college will need to support the added need for faculty, resources, and support for an expanding accreditation process.
- Will schedule a meeting with Dr. Boulos this fall to discuss this possibility.
- Consider adding sections of Phlebotomy and Medical Billing and Coding to meet the student needs.
- A section of phlebotomy was added Spring 08. Additional Billing and Coding courses would be irresponsible on our end to put so many out into the community looking for jobs.
- The MDA website needs to be update and CRC recommends the faculty coordinator work with the Office of Assessment & Effectiveness.
- This has been completed thanks to the hard work of Marty Orlowski and his department.
- Course Description for MDA 2010 needs revision, and MDA 2460 needs prerequisite update.
- Curriculum changes to MDA hope to be started this academic year.
- Consider an entrance exam (assessment) for all Allied Heath programs to determine if students might need to develop more critical thinking skills before entrance into the program.
- There is ongoing discussion regarding this issue between the Health Professions and Technology Department.
- Consider placing into the program catalogue description a strong recommendation for a required level of Math, English and Critical Thinking skills necessary to be a successful student.
- This is under consideration; but, considering all skills (lifting, eyesight, hearing, and communication both written and verbal, etc., all located in a list in the program handbook) the description of the program in the catalog could just keep growing and growing. I wonder if the catalog is the right place for all that is expected.