Major Highlights

Program Dashboard Report 2003-04

Degree and Credit Hour Trends 2004-05

Occupational Projections (2004 – 2014)

Program Assessment Plan (most current)

Summary of Program Assessment Results

Architecture
Major Highlights
(February 2006)

Overview

The information contained within this binder represents supporting reports and data associated with the CRC's review of the Architecture program. These documents are intended to provide a historical perspective, as well as an idea of current and future issues which may impact the short and long term viability of the program.

Major Highlights

- Over the past ten years a total of only 12 Associate degrees have been awarded in this program, with half of those graduates occurring in the past five years.

- Credit hour enrollment in ARC courses have seen periods of steady decline as well as periods of growth over the past ten years. Enrollment reached a low point between 1998-99 and 2000-01. However, over the past four years enrollment has been steadily increasing.

- During academic year 2003-04 a total of twenty-one ARC sections were offered, of which two were canceled. However, average section size totaled 16.1 students, below the college-wide average of 23.3. Meanwhile, sections were filled to 63% of capacity during the academic year.

- The percent of minority students enrolled in ARC courses is below the college-wide average.

- The percent of students who withdrawal from ARC courses is slightly higher than the college-wide average. On the other hand, during 2003-04 no students received an "incomplete" grade/mark. Meanwhile, 71% of all students successfully pass ARC courses with a grade of "C" or higher which is above the college-wide average of 65%.

- Occupations associated with the field of Architecture are expected to experience varying levels of growth over the next ten years. Some occupations are projected to grow (new jobs), while most job opportunities will result from increased demand due to retirement, out-migration, death, etc.

- In total the Architecture program has identified four Learning Outcomes with two Benchmarks per Outcome. Since January 2005, only one Benchmark has been assessed. Assessment findings indicate that the Benchmark was not met and an action plan was developed to address the issue.

Oakland Community College
Program Dashboard 2003-04
Prototype

This document represents the first Program Dashboard Report for Oakland Community College. As such it should be viewed as a prototype upon which further enhancements and refinements will be made.

The purpose of the program dashboard is to provide a data driven tool designed for the systematic and objective review of all curriculum offerings. Based on a common set of measures which apply to all programs/disciplines the program dashboard will facilitate the systematic identification of well performing as well as ailing curriculum so early intervention (triage) 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. As in an airplane, the dashboard consists of a wide variety of indicator lights to provide the "pilot" information about the overall performance of the highly complex machine.

As a prototype it is recognized that there are limitations with the current report. Through its introduction and application these limitations will be addressed and adequately resolved in future productions of the program dashboard.

Program Dashboard
Detail Report

Prefix ARC   **Dashboard Score** 11
Title Architecture

	Program	College Wide
Average Section Size	16.1	23.3
Sections Filled to Capacity	63.0%	88.4%
Percent of Completed Sections	90.5%	89.1%
Weighted Percent Change in Headcount	3.6%	3.5%
Weighted Percent Change in Credit Hours	3.9%	3.0%
Percent of Minority Students	17.3%	27.1%
Percent of Withdrawals	18.5%	16.5%
Percent of Incompletes	0.0%	1.6%
Student Course Completion Rate	71.0%	64.8%

Average Section Size

Prefix   ARC

Prefix Title   Architecture

Total Students	306
Number of Sections	19
Average Section Size	16.1

Definition:

Average number of students per section. Time Frame: Academic Year (Summer II, Fall, Winter, Summer I). Data Source: One-Tenth-Day of each term.

Methodology:

Total duplicated student headcount divided by total capacity of all sections over an academic year. Currently (2003-04 data) does not take into account the differences between "A" and "B" sections.

Sections Filled to Capacity

Prefix   ARC

Prefix Title   Architecture

Total Students   306

Total Capacity   486

Sections Filled To Capacity   63.0%

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   ARC

Prefix Title   Architecture

Active Sections   19

Cancelled Sections   2

Total Sections   21

Percent of Completed Sections 90.5%

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.

Weighted Percent Change in Headcount

Prefix   ARC

Prefix Title   Architecture

2000-01 Headcount	168
2001-02 Headcount	249
2002-03 Headcount	275
2003-04 Headcount	306

Three Year Average Change   46

Weighted Percent Change in Headcount   3.6%

Definition:

Percent change in total student headcount based on a three year weighted 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 statistic which applies to large as well as small disciplines/programs a "Weighted Percent Change" figure was calculated for this measure. The following series of formulas were applied:

First, a Three Year Average Change was calculated. The difference between year 2 and year 1 was added to the difference between year 3 and year 2, as well as added to the difference between year 4 and year 3. This sum total was then divided by 3 to obtain the Three Year Average Change. (Three Year Average Change = (year 2 – year 1) + (year 3 -year 2) + (year 4 - year 3) / 3)

Next, the Three Year Average Change was multiplied by the relative size of the discipline based on the proportion of students enrolled in the discipline. This resulted in the Weighted Change statistic. (Weighted Change = Three Year Average Change X Discipline Proportion)

Next, the Three Year Average Percent Change was calculated. The Three Year Average Change (see above) was divided by the average enrollment in the discipline/program over the past three years. (Three Year Average Percent Change = Three Year Average Change / ((year 2 + year 3 + year 4) / 3))

Finally, the Weighted Percent Change was derived by multiplying the Three Year Average Percent Change times the relative proportion of the discipline. (Weighted Percent Change = Three Year Average Percent Change X Weighted Change)

Weighted Percent Change in Credit Hours

Prefix　　　　ARC

Prefix Title　　Architecture

2000-01 Credit Hours　　　　637

2001-02 Credit Hours　　　　926

2002-03 Credit Hours　　　　1,022

2003-04 Credit Hours　　　　1,136

Three Year Average Change　　　　　　166

Weighted Percent Change in Credit Hours　　　3.9%

Definition:

Percent change in total student credit hours based on a three year weighted 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 statistic which applies to large as well as small disciplines/programs a "Weighted Percent Change" figure was calculated for this measure. The following series of formulas were applied:

First, a Three Year Average Change was calculated. The difference between year 2 and year 1 was added to the difference between year 3 and year 2, as well as added to the difference between year 4 and year 3. This sum total was then divided by 3 to obtain the Three Year Average Change. (Three Year Average Change = (year 2 − year 1) + (year 3 -year 2) + (year 4 - year 3) / 3)

Next, the Three Year Average Change was multiplied by the relative size of the discipline based on the proportion of students enrolled in the discipline. This resulted in the Weighted Change statistic. (Weighted Change = Three Year Average Change X Discipline Proportion)

Next, the Three Year Average Percent Change was calculated. The Three Year Average Change (see above) was divided by the average enrollment in the discipline/program over the past three years. (Three Year Average Percent Change = Three Year Average Change / ((year 2 + year 3 + year 4) / 3))

Finally, the Weighted Percent Change was derived by multiplying the Three Year Average Percent Change times the relative proportion of the discipline. (Weighted Percent Change = Three Year Average Percent Change X Weighted Change)

Percent of Minority Students

Prefix   ARC

Prefix Title   Architecture

Minority Students   32

Total Students   185

Percent of Minority Students   17.3%

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   ARC

Prefix Title   Architecture

Total Withdrawals   53

Total Grades   286

Percent of Withdrawals   18.5%

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   ARC

Prefix Title   Architecture

Total Incompletes   0

Total Grades   286

Percent of Incompletes   0.0%

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   ARC

Prefix Title   Architecture

Successful Grades	203
Total Student Grades	286
Student Course Completion Rate	71.0%

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).

Institutional Research Report
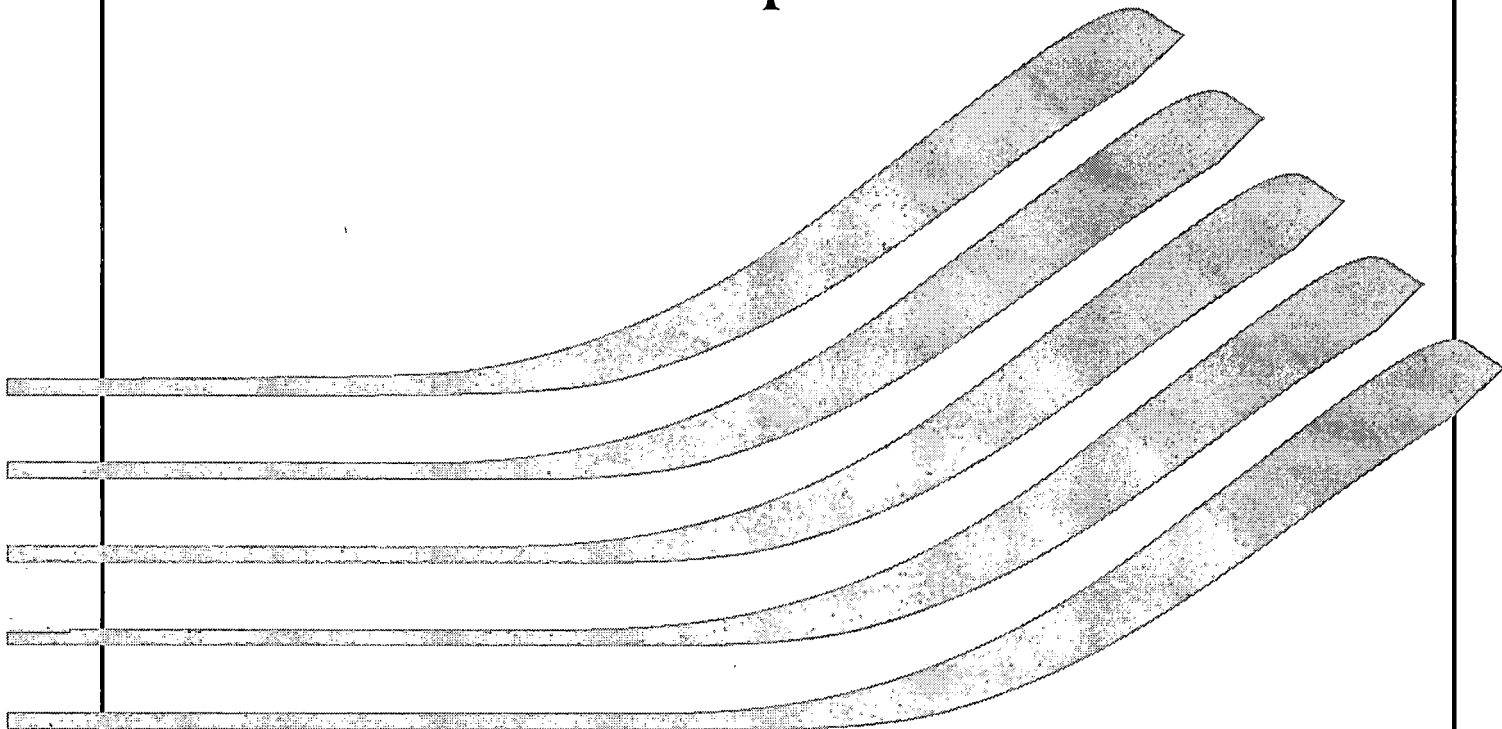
Architecture
Degree and Credit Hour Trends Reports
for
Curriculum Review Committee

OAKLAND
COMMUNITY
COLLEGE

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OAKLAND
COMMUNITY
COLLEGE

Degree Trends Report

Architecture

ACH

2004-05

Prepared by:
Oakland Community College
Office of Institutional Research
February 10, 2006

Oakland Community College
Degree Trends Report
Architecture (ACH)
1995-96 through 2004-05

The Degree Trends Report is developed by the Office of Institutional Research based
on data compiled from official college records which are submitted to the State
of Michigan for the IPEDS (Integrated Post-Secondary Education System) Annual Degrees
Conferred Report. The Degree Trends Report examines trends of OCC degrees,
based on specific programs. The standard format offers information about certificates and
associate degrees awarded. In the event that a given program offers only a
certificate or an associate degree, information describing the other type of award
will not be shown.

Trends over a specified period of time are illustrated by the following graphs for
Architecture (ACH)

- Ten-year trend showing the annual awards conferred in
  Architecture

- Rate of change in annual awards conferred in
  Architecture

- The three-year Moving Mean for annual awards conferred in
  Architecture

- Ten-year trend in awards conferred collegewide.

Questions regarding this report can be forwarded to the Office of Institutional Research
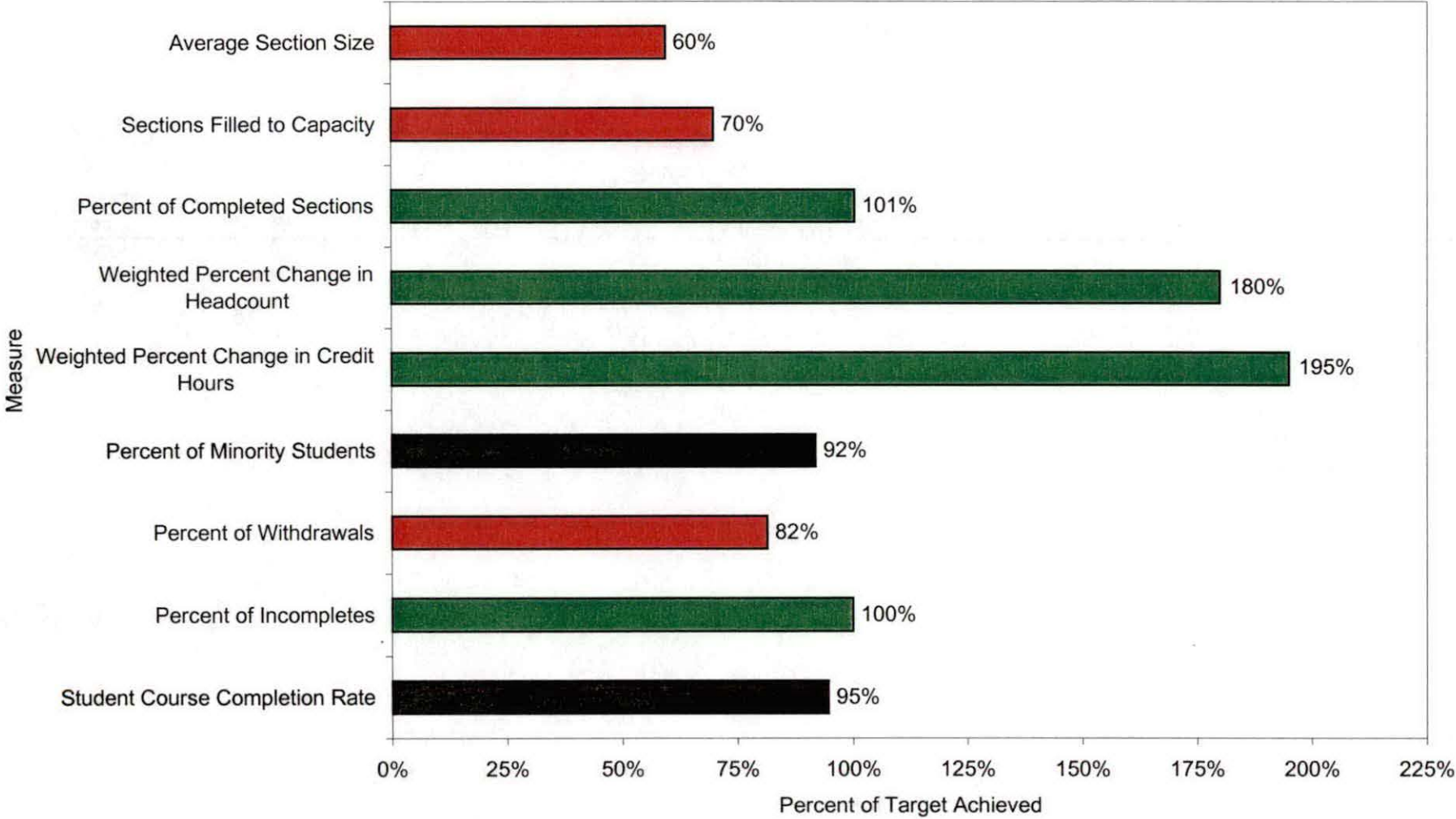at (248) 341-2123.

Oakland Community College
Program Dashboard Report
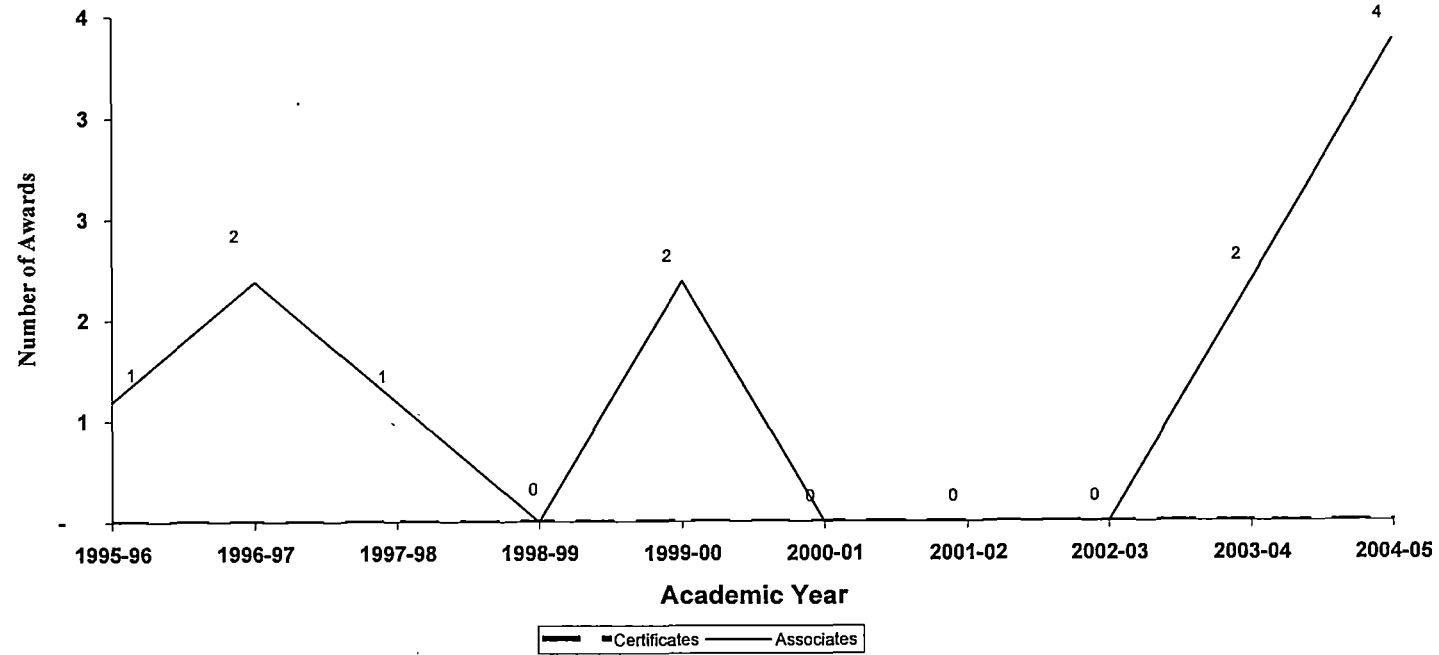# 2003-04

Architecture ARC
Dashboard Score: 11.00

Measures	Current Score	Benchmarks Trouble Score	Target	Percent of Target Achieved	Weight	Weighted Score
Average Section Size	16.1	22.5	27.0	59.6%	8.3%	0.49
Sections Filled to Capacity	63.0%	75.0%	90.0%	70.0%	7.9%	0.55
Percent of Completed Sections	90.5%	75.0%	90.0%	100.6%	8.8%	0.88
Weighted Percent Change in Headcount	3.6%	0.5%	2.0%	180.0%	12.7%	2.29
Weighted Percent Change in Credit Hours	3.9%	0.5%	2.0%	195.0%	10.8%	2.11
Percent of Minority Students	17.3%	16.9%	18.8%	92.0%	6.9%	0.63
Percent of Withdrawals	18.5%	15.0%	0.0%	81.5%	16.2%	1.32
Percent of Incompletes	0.0%	3.0%	0.0%	100.0%	6.8%	0.68
Student Course Completion Rate	71.0%	60.0%	75.0%	94.7%	21.6%	2.04

Oakland Con   unity College
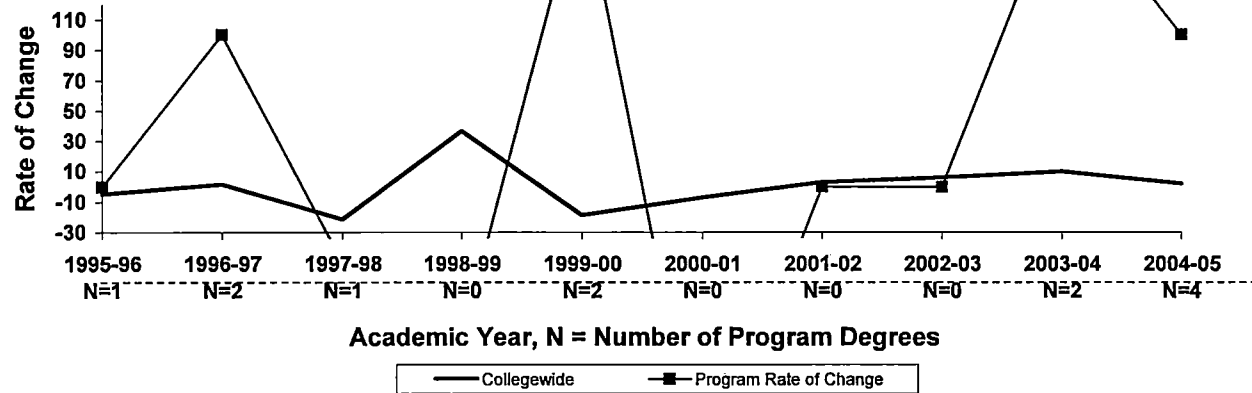# Percent of Target Achieved
2003-04

Architecture ARC

Measure	Percent of Target Achieved
Average Section Size	60%
Sections Filled to Capacity	70%
Percent of Completed Sections	101%
Weighted Percent Change in Headcount	180%
Weighted Percent Change in Credit Hours	195%
Percent of Minority Students	92%
Percent of Withdrawals	82%
Percent of Incompletes	100%
Student Course Completion Rate	95%

Oakland Community College
Associate Degrees and Certificates Awarded
Architecture
1995-96 through 2004-05

Academic Yr.	Certificates	Associates
1995-96	0	1
1996-97	0	2
1997-98	0	1
1998-99	0	0
1999-00	0	2
2000-01	0	0
2001-02	0	0
2002-03	0	0
2003-04	0	2
2004-05	0	4

2/10/2006

Oakland Community College
Rate of Change in Annual Awards
College-Wide
1995-96 through 2004-05

Associate Degrees

Academic Year, N = Number of Program Degrees

	Collegewide	—■— Program Rate of Change

Certificates

Academic Year, N = Number of Program Certificates

	College-wide	—— Program Rate of Change

Oakland Community College
Three Year Moving Mean in Annual Awards
Architecture
1995-96 through 2003-04

Associate Degrees
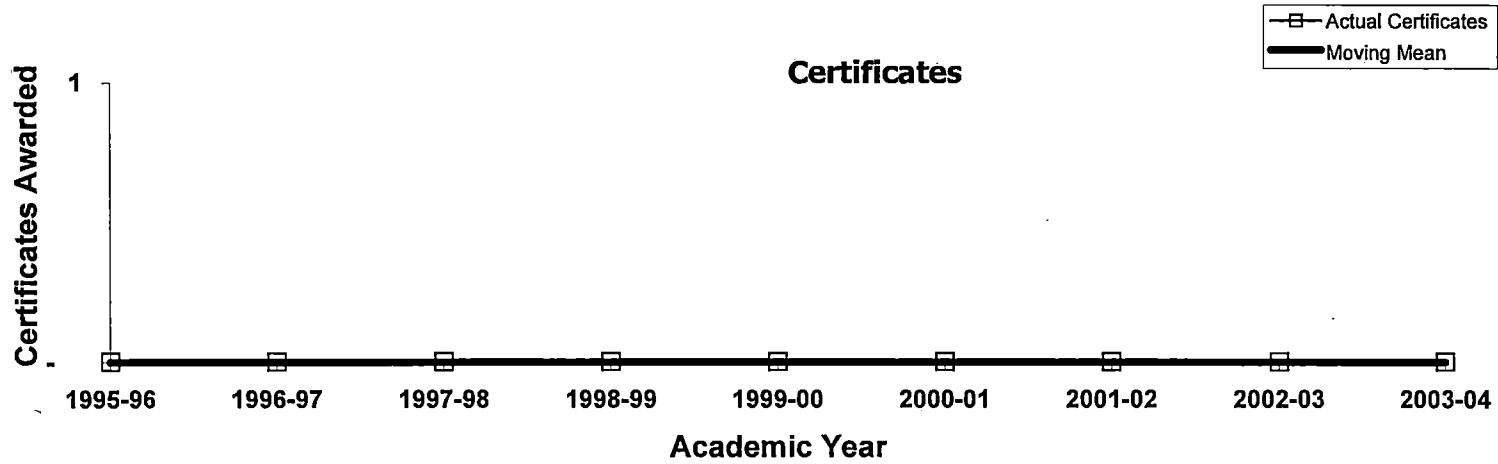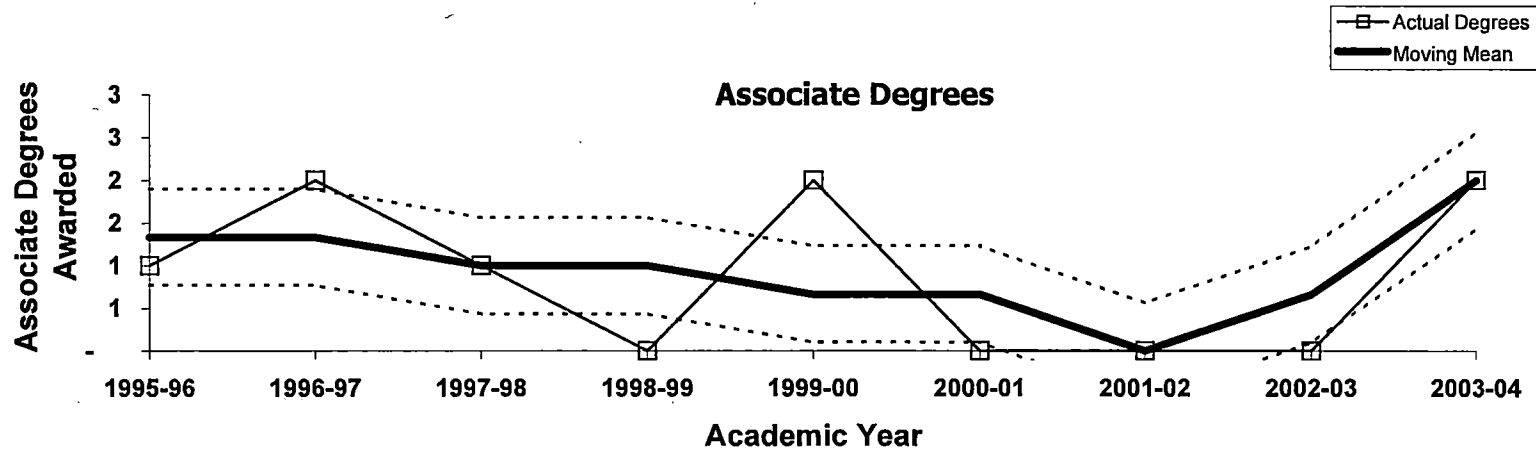
Certificates

Oakland Community College
Associate Degrees and Certificates Awarded
College-Wide
1995-96 through 2004-05

Number of Awards

Degrees: 1,843 | 1,879 | 1,483 | 2,028 | 1,657 | 1,543 | 1,592 | 1,692 | 1,864 | 1,908

Certificates: 89 | 88 | 69 | 161 | 88 | 117 | 138 | 127 | 151 | 160

Academic Year

Legend: Certificates — Degrees
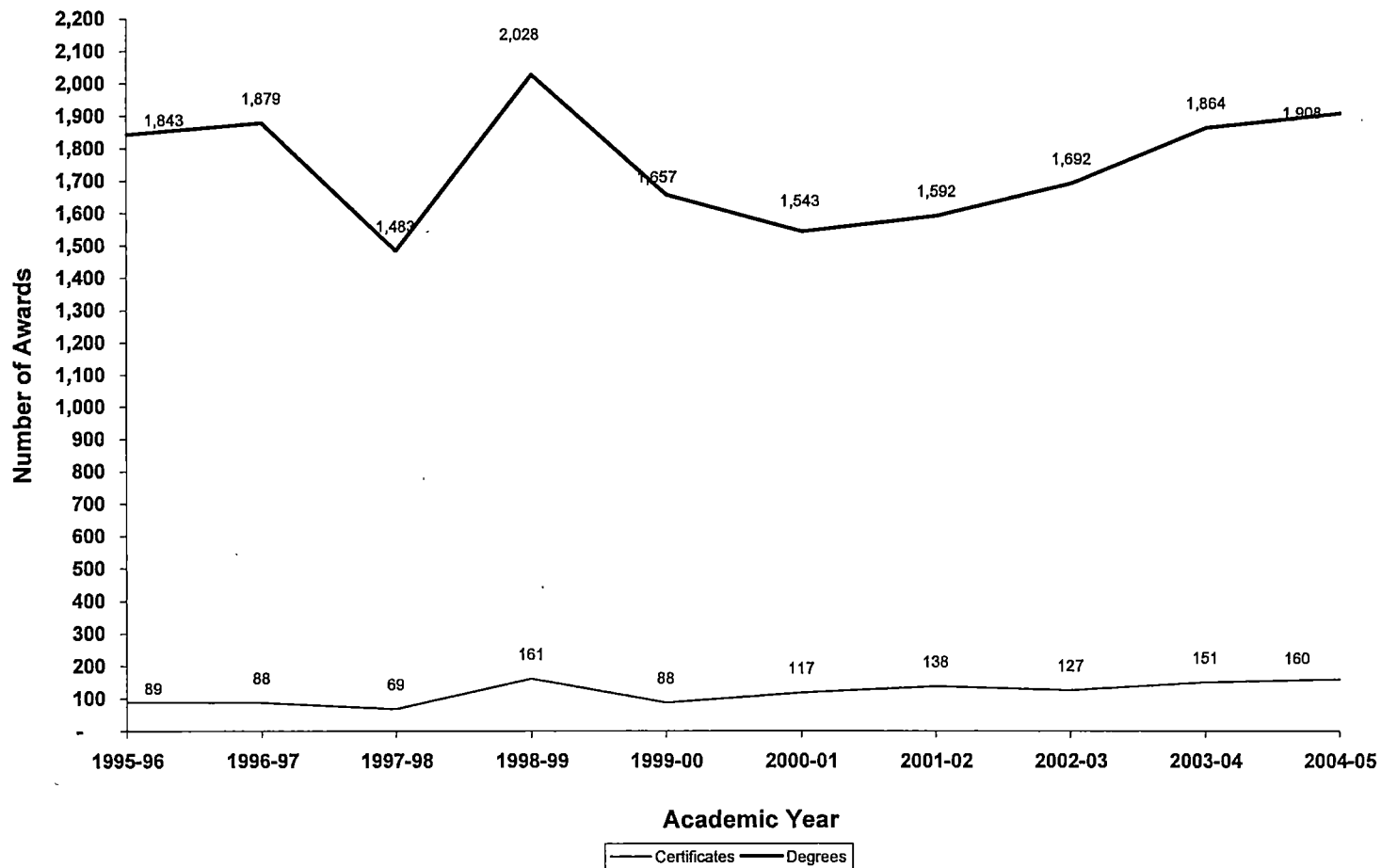
OAKLAND
COMMUNITY
COLLEGE

Credit Hour Trends Report
Architecture
ARC
2004-05

Prepared by:

Oakland Community College

Office of Institutional Research

February 10, 2006

Oakland Community College
Credit Hour Trends Report
Architecture
1994-95 through 2004-05

Each year the Office of Institutional Research prepares the Credit Hour Trends Report, based on data submitted to the State of Michigan in the annual ACS-6 (Activities Classification Structure) process. This report is based on each course section's official count date (1/10th Day). The Credit Hour Trends Report examines annual (July 1 - June 30) enrollment trends of OCC disciplines, based on course prefix codes.

Trends over a specified period of time are illustrated by the following graphs for Architecture.

- Graph depicting ten-year trend in student credit hours generated by Architecture

- Graphs depicting three-year moving mean and rate of change in student credit hours for Architecture.

- Ten-year trend in annual credit hours generated Collegewide.

Questions regarding this report can be forwarded to the Office of Institutional Research at (248) 341-2123.

Oakland Community College
Ten-Year Trend in Student Credit Hours
Architecture
1994-95 through 2004-05

	1994-95 SCH	1995-96 SCH	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	5-Year % Change	10-Year % Change
Architecture	816	1,093	921	817	660	784	605	899	1,014	1,059	1,219	55.5	49.4
College Wide Totals	471,593	451,159	443,471	431,521	440,448	438,997	453,054	447,928	478,827	468,777	472,892	7.7	0.3
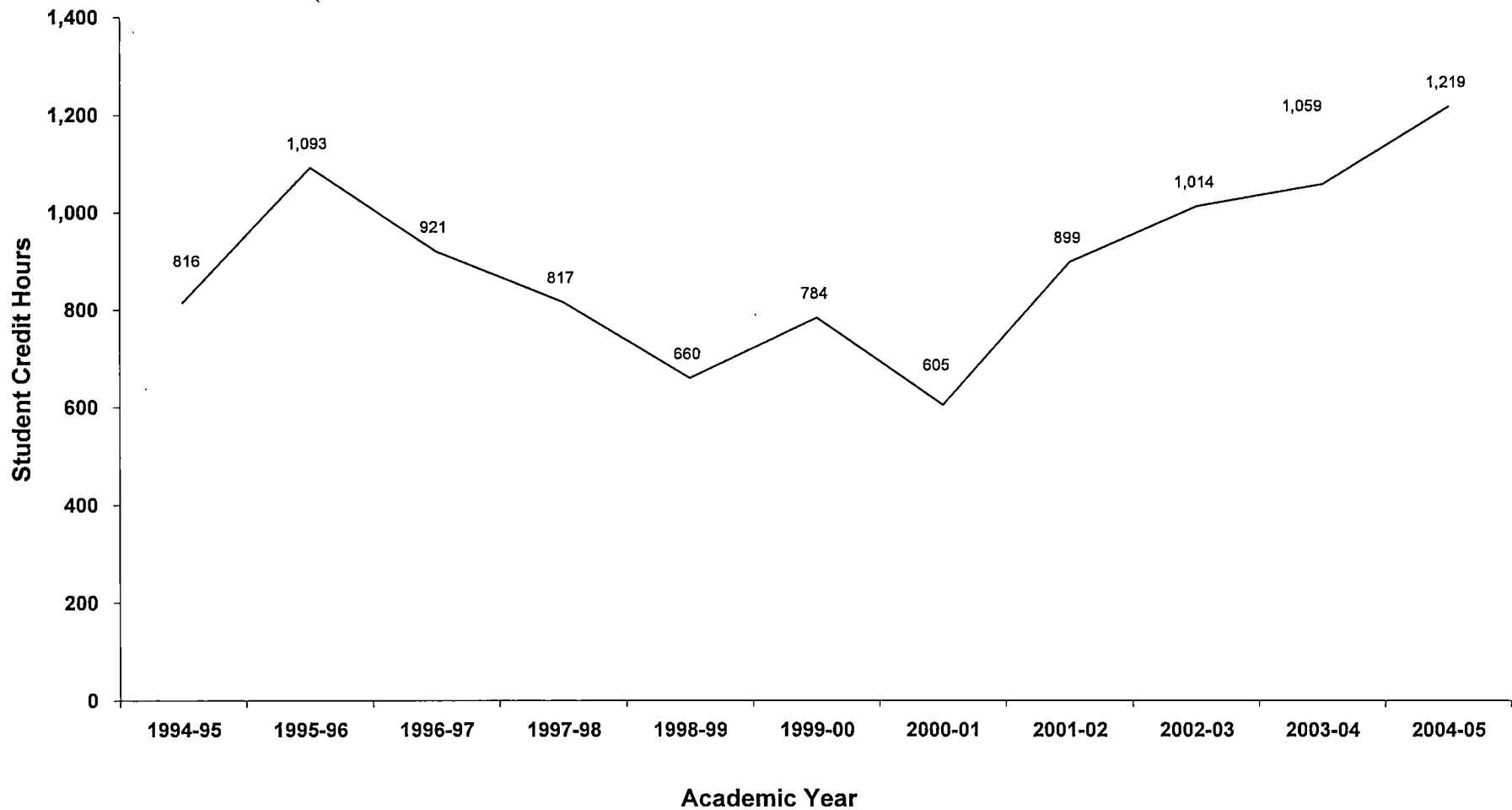
Oakland Community College
Three-Year Moving Mean
Architecture
1995-96 through 2003-04
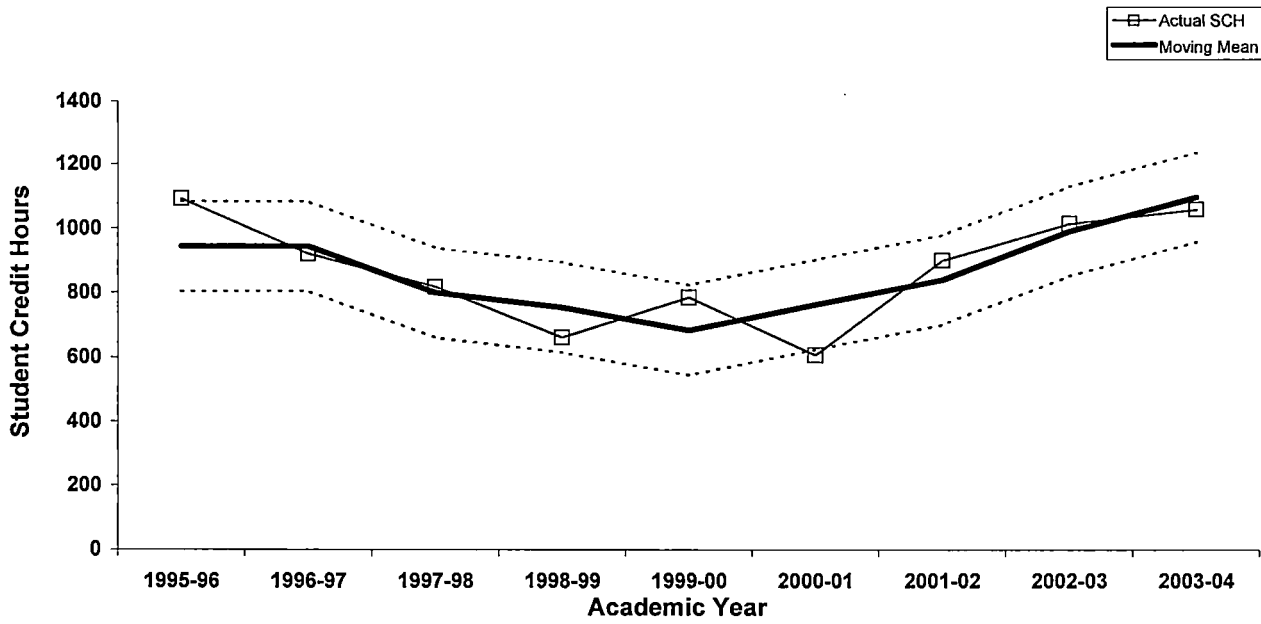
Rate of Change in Student Credit Hours 1995-96 through 2004-05

2/10/2006

Oakland Community College
Ten-Year Trend in Student Credit Hours
College-Wide
1995-96 through 2004-05
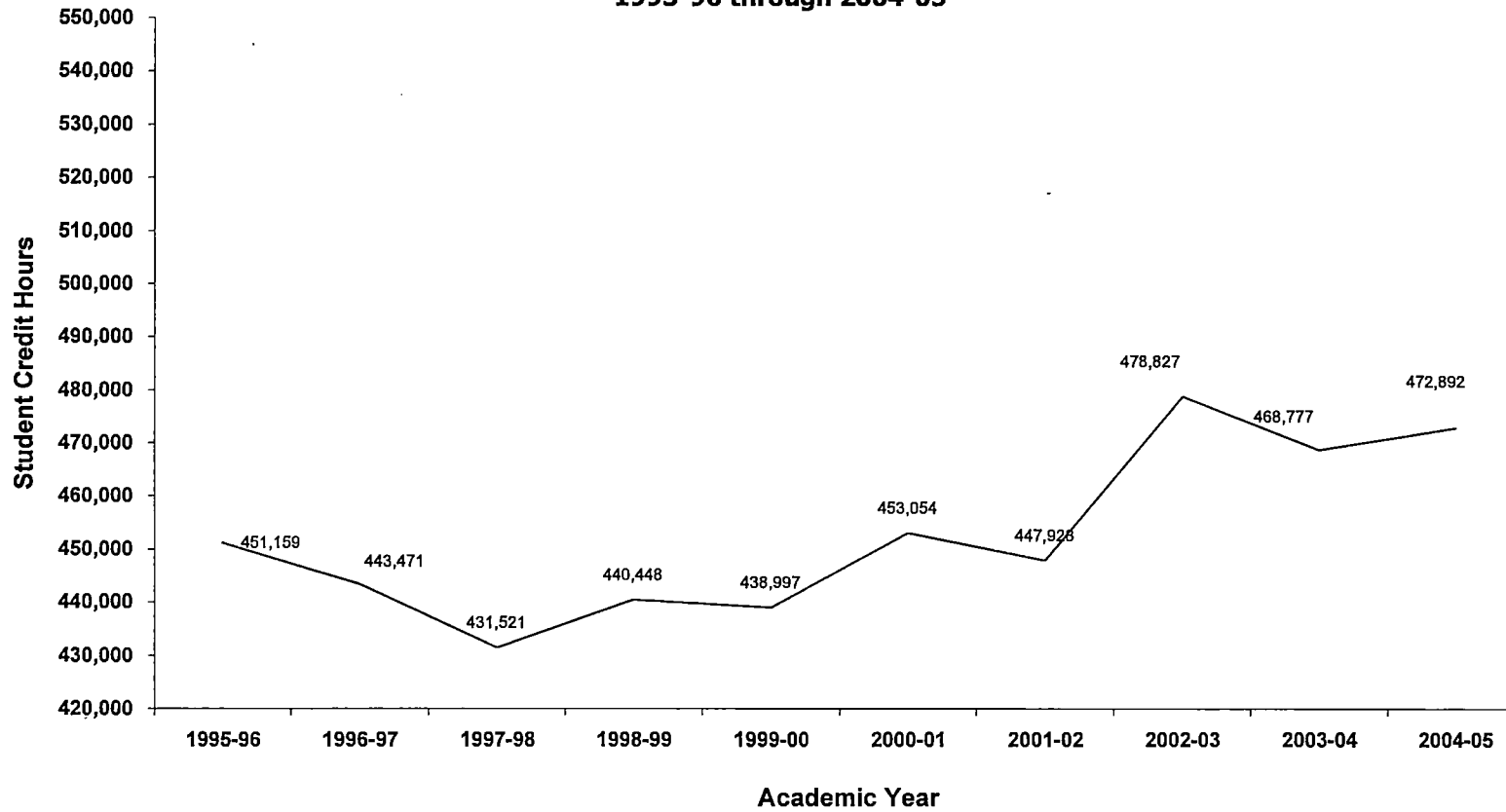
1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
451,159	443,471	431,521	440,448	438,997	453,054	447,928	478,827	468,777	472,892

OAKLAND
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Credit Hour Trends Report
Computer Aided Design & Drafting
CAD
2004-05

Prepared by:
Oakland Community College
Office of Institutional Research
February 10, 2006

Oakland Community College
Credit Hour Trends Report
Computer Aided Design & Drafting
1994-95 through 2004-05

Each year the Office of Institutional Research prepares the Credit Hour Trends Report, based on data submitted to the State of Michigan in the annual ACS-6 (Activities Classification Structure) process. This report is based on each course section's official count date (1/10th Day). The Credit Hour Trends Report examines annual (July 1 - June 30) enrollment trends of OCC disciplines, based on course prefix codes.

Trends over a specified period of time are illustrated by the following graphs for Computer Aided Design & Drafting.

- Graph depicting ten-year trend in student credit hours generated by Computer Aided Design & Drafting

- Graphs depicting three-year moving mean and rate of change in student credit hours for Computer Aided Design & Drafting.

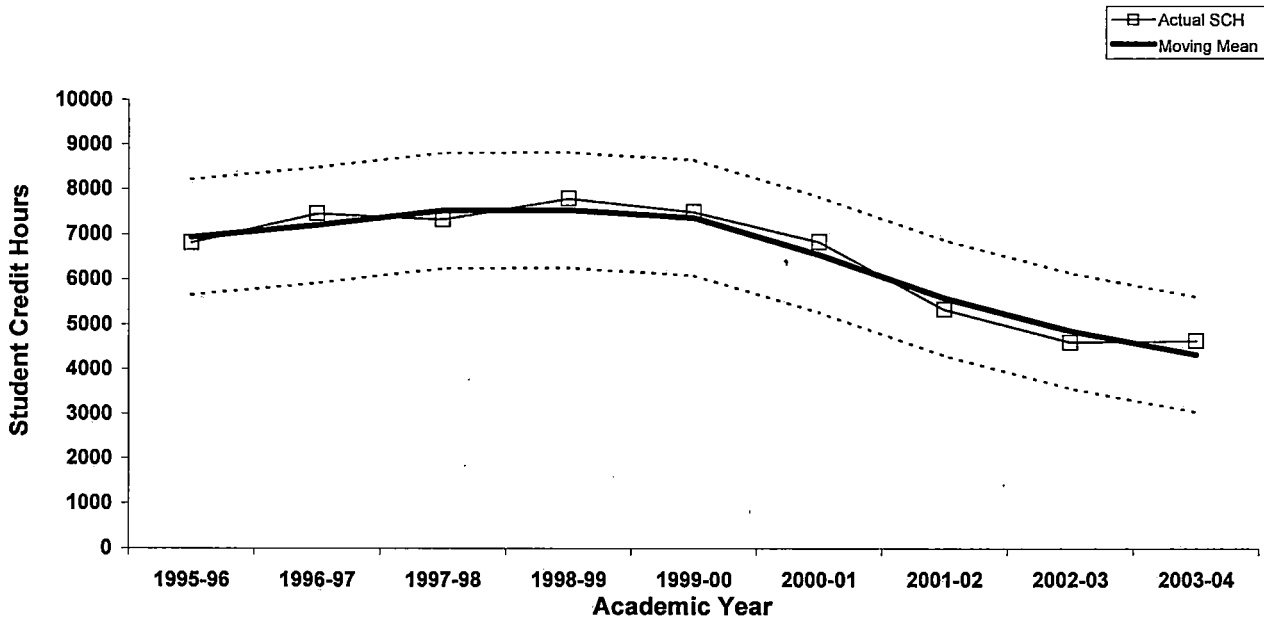- Ten-year trend in annual credit hours generated Collegewide.

Questions regarding this report can be forwarded to the Office of Institutional Research at (248) 341-2123.

Oakland Community College
Ten-Year Trend in Student Credit Hours
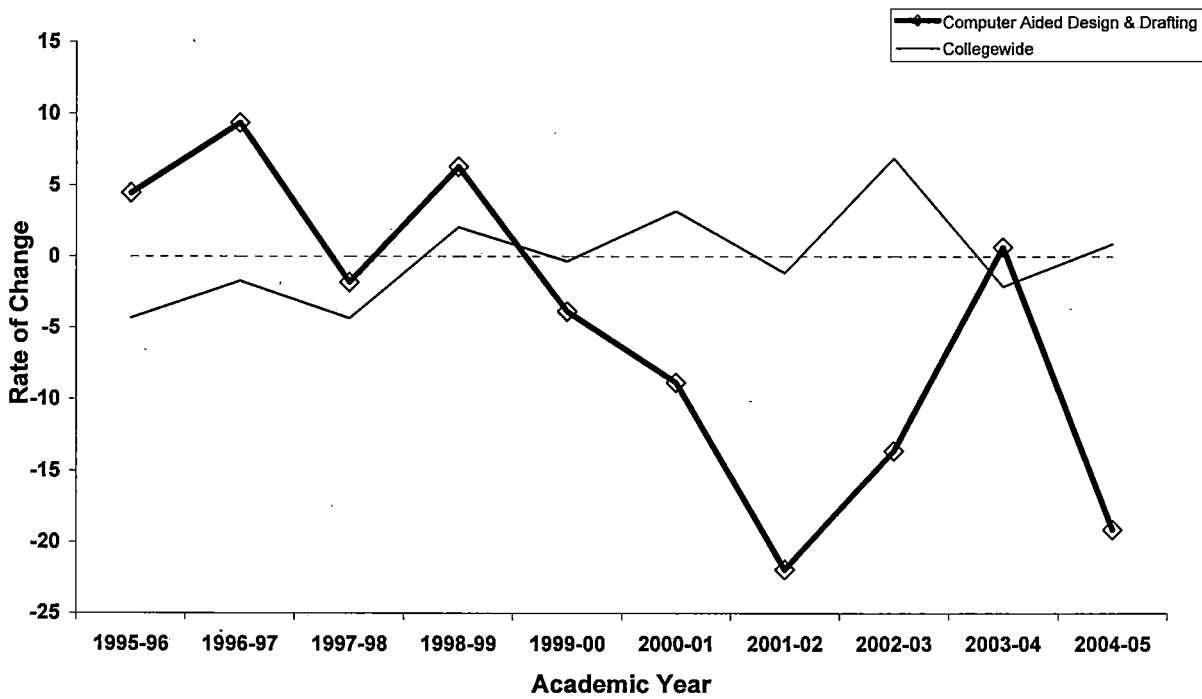## Computer Aided Design & Drafting
1994-95 through 2004-05

	1994-95 SCH	1995-96 SCH	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	5-Year % Change	10-Year % Change
Computer Aided Design & C	6,520	6,811	7,449	7,315	7,776	7,476	6,813	5,320	4,595	4,626	3,740	-50.0	-42.6
College Wide Totals	471,593	451,159	443,471	431,521	440,448	438,997	453,054	447,928	478,827	468,777	472,892	7.7	0.3
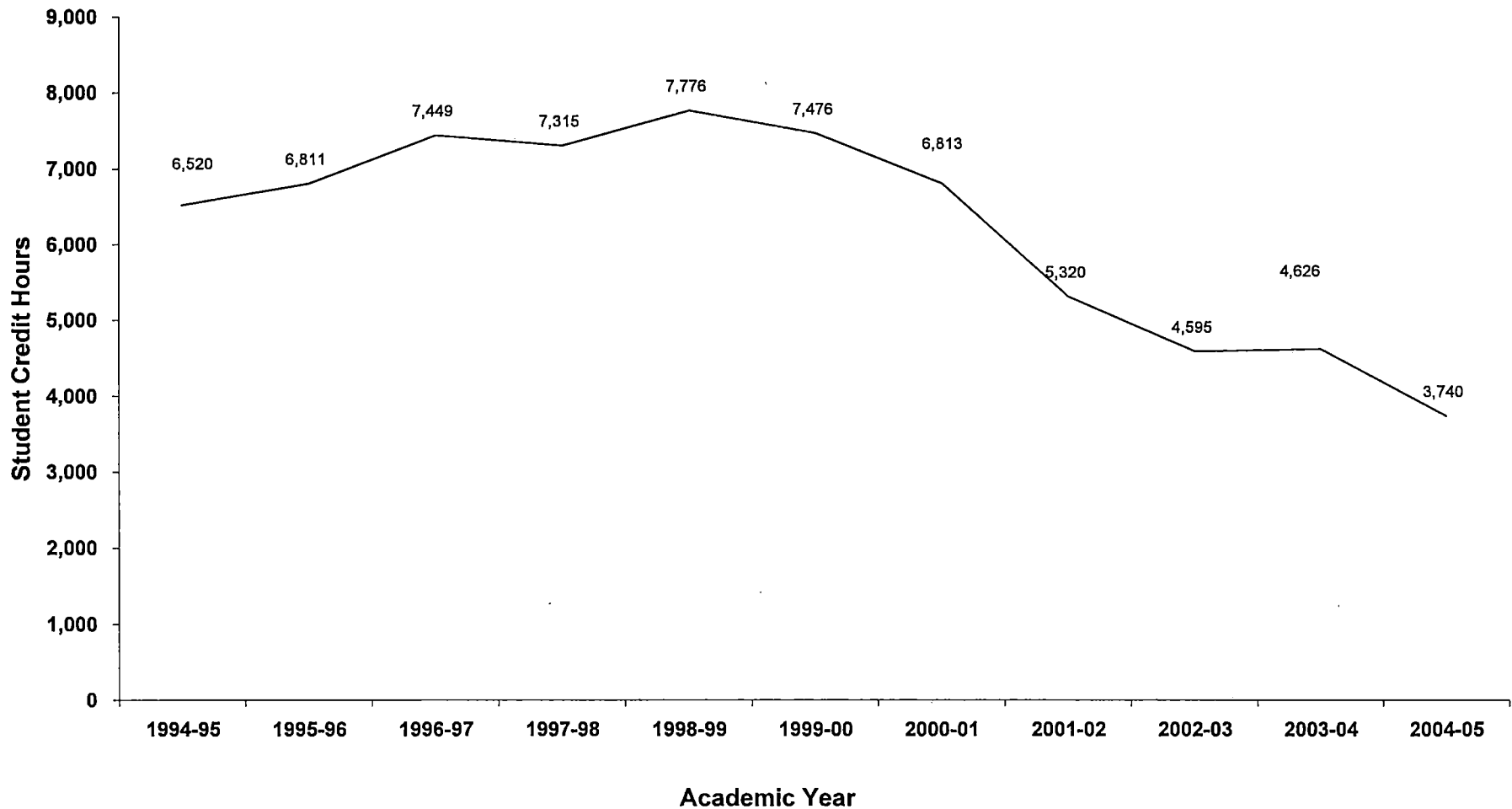
Oakland Community College
Three-Year Moving Mean
Computer Aided Design & Drafting
## 1995-96 through 2003-04

Legend:
- Actual SCH
- Moving Mean

X-axis: Academic Year (1995-96, 1996-97, 1997-98, 1998-99, 1999-00, 2000-01, 2001-02, 2002-03, 2003-04)
Y-axis: Student Credit Hours (0 to 10000)

Rate of Change in Student Credit Hours 1995-96 through 2004-05

Legend:
- Computer Aided Design & Drafting
- Collegewide

X-axis: Academic Year (1995-96, 1996-97, 1997-98, 1998-99, 1999-00, 2000-01, 2001-02, 2002-03, 2003-04, 2004-05)
Y-axis: Rate of Change (-25 to 15)

Oakland Community College
Ten-Year Trend in Student Credit Hours
College-Wide
1995-96 through 2004-05
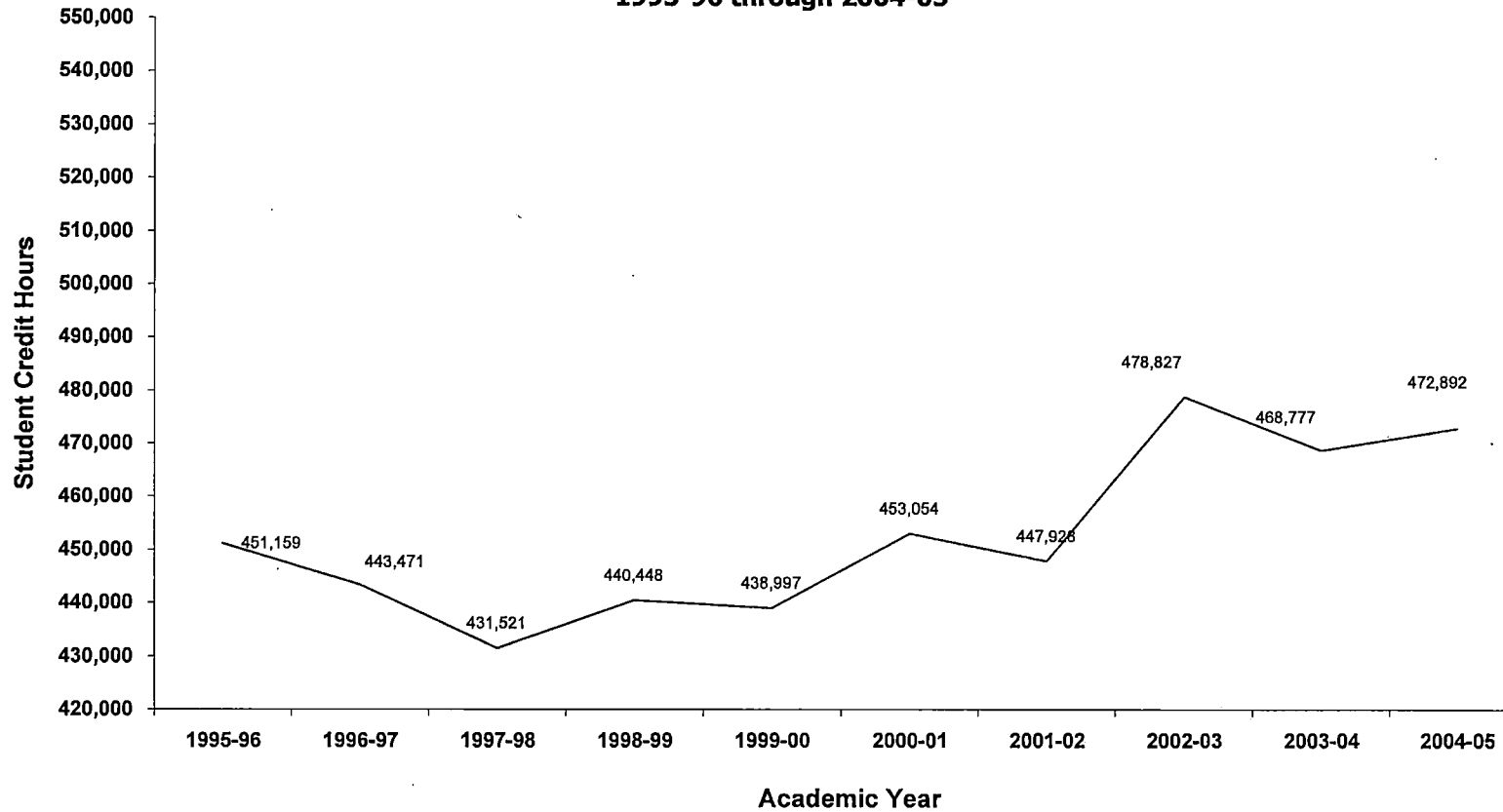
1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
451,159	443,471	431,521	440,448	438,997	453,054	447,928	478,827	468,777	472,892

Occupational Projections
(2004 – 2014)

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 SOC codes is highly dependent upon the way in which the U.S. Department of Labor groups specific occupations.

When possible, projections are presented at four distinct levels based on U.S. Department of Labor Standard Occupational Code (SOC) groups e.g. Major (N = 23), Minor (N = 89), Broad (N = 396), and Detailed (N = 710).

Projections are highly 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), 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.

Source for 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 2004.
- Five Year: Number of projected jobs in 2009.
- Ten Year: Number of projected jobs in 2014.
- New Jobs: Projected number of new jobs between 2004 and 2014.
- Replacement Jobs: Projected number of replacement jobs between 2004 and 2014.
- % New Jobs: Percent of projected new jobs in 2014 using 2004 as the base year.
- % Replacement Jobs: Percent of projected replacement jobs in 2014 using 2004 as the base year.
- % New and Replacement Jobs: Percent of projected new and replacement jobs in 2014 using 2004 as the base year.
- Earnings: Average annual earnings within the SOC code in 2004.

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.

Architecture Related Occupations (2004 - 2014)

SOC Detail Group

SOC Code	Name	Base Year	Five Year	Ten Year	New Jobs	Rplmnt Jobs	% New Jobs	% Rplmnt	% New & Rplmnt	Earnings
17-1011	Architects, except landscape and naval	3,457	3,682	3,856	399	340	11.5%	9.8%	21.4%	$98,236
17-1099	All other architects, surveyors, and cartographers	294	305	313	20	95	6.8%	32.3%	39.1%	$94,152
17-3011	Architectural and civil drafters	2,318	2,334	2,323	10	628	0.4%	27.1%	27.5%	$57,324
17-3099	All other drafters, engineering, and mapping technicians	9,119	9,473	10,030	911	2,183	10.0%	23.9%	33.9%	$96,921
Totals:		15,188	15,794	16,522	1,340	3,246				

Program Assessment Plan
Architecture

Catalog Description

The Architecture program is designed to prepare students to work in architecture and related fields. Through the courses in this program, the student will gain a knowledge of design, drafting and construction methods. Upon completion, the student will qualify for an Associate in Applied Science Extended Degree and could be employed at an entry-level position in architectural and construction firms. Students interested in transferring to a bachelor's program in architecture should consult an Oakland Community College counselor prior to enrolling in classes.

Statement of Purpose

This program prepares students to work in architecture and related fields, or continue their education at the baccalaureate level. Students gain knowledge in design, drafting and construction methods, which qualifies them for entry-level positions in architectural and construction firms.

Learning Outcomes

Students will develop oral and written technical communications skills.

Benchmark 1

Students will achieve 80% in evaluation by faculty against technical writing standards.

Assessment Method 1

An average score of 85% on presentations to architects, classmates, and instructor, made at various points throughout their program including the standard architectural critique process.

Assessment Date 1 5/1/2005   **Findings Sent to OAE Date 1** 6/1/2005

Benchmark 2

Students will achieve 80% in evaluation by faculty against technical writing standards.

Assessment Method 2

All graduates must pass ENG 1450, Writing & Reading for Problem Solving.

Assessment Date 2 5/1/2005   **Findings Sent to OAE Date 2** 6/1/2005

Learning Outcomes

Students will have a basic understanding of the development and production of residential working drawings, and a basic understanding of residential construction practices.

Benchmark 1

85% of students will qualify to proceed further in the program by successfully completing ARC 1080.

Assessment Method 1

85% of students will receive a minimum grade of "C" in each of the following four areas: Written examination, Drawing Development, Drawings evaluated on the basis of written criteria sheet, One on one drawing review and critique with the instructor.

Assessment Date 1 12/1/2005   **Findings Sent to OAE Date 1** 1/1/2006

Benchmark 2

85% of students will be qualified by completion of ARC 1080.

Assessment Method 2

An average score of 85% on presentations to architects, classmates, and instructor, made at various points throughout their program including the standard architectural critique process.

Assessment Date 2 5/1/2005   **Findings Sent to OAE Date 2** 6/1/2005

Learning Outcomes

Students will utilize knowledge of codes, research, construction specifications, electrical, mechanical, and structural systems, to create Commercial design development drawings.

Benchmark 1

85% of students will be qualified by completion of ARC 2180

Assessment Method 1

An average score of at least 80% on all projects assigned.

Assessment Date 1 5/1/2005   **Findings Sent to OAE Date 1** 6/1/2005

Benchmark 2

85% of students will be qualified by completion of ARC 2180.

Assessment Method 2

An average score of 85% on presentations to Architects, classmates, instructor, made at various points throughout their program including standard architectural critique process.

Assessment Date 2 5/1/2005   **Findings Sent to OAE Date 2** 6/1/2005

Learning Outcomes

Students will master problem solving and analytical skills in order to complete assigned projects.

Benchmark 1

Students will utilize mathematical calculations and Physics to identify and analyze structural integrity.

Assessment Method 1

85% of students complete test problems related to structural integrity with a score of 100%.

Assessment Date 1 5/1/2005   **Findings Sent to OAE Date 1** 6/1/2005

Benchmark 2

Students will utilize mathematical calculations and Physics to identify and analyze structural integrity.

Assessment Method 2

85% of students will correctly identify structural flaws based on the laws of Physics, and formulate corrective actions with 85% accuracy.

Assessment Date 2 5/1/2005   **Findings Sent to OAE Date 2** 6/1/2005

Summary of Program Assessment Results
Architecture

Catalog Description
The Architecture program is designed to prepare students to work in architecture and related fields. Through the courses in this program, the student will gain a knowledge of design, drafting and construction methods. Upon completion, the student will qualify for an Associate in Applied Science Extended Degree and could be employed at an entry-level position in architectural and construction firms. Students interested in transferring to a bachelor's program in architecture should consult an Oakland Community College counselor prior to enrolling in classes.

Program Statement of Purpose
This program prepares students to work in architecture and related fields, or continue their education at the baccalaureate level. Students gain knowledge in design, drafting and construction methods, which qualifies them for entry-level positions in architectural and construction firms.

Learning Outcome
Students will have a basic understanding of the development and production of residential working drawings, and a basic understanding of residential construction practices.

Benchmark 1
85% of students will qualify to proceed further in the program by successfully completing ARC 1080.

Assessment Method 1
85% of students will receive a minimum grade of "C" in each of the following four areas: Written examination, Drawing Development, Drawings evaluated on the basis of written criteria sheet, One on one drawing review and critique with the instructor.

Benchmark Scheduled To Be Assessed: 12/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 1/1/2005

Findings 1
12 of the 16 students in the course received a grade of C or higher. Benchmark not achieved.

Will other steps be taken as a result of these findings? Yes

If Yes, specifically what steps will be taken?
We believe the disparity is based on extreme variations in preparatory background. Students with high school equivalency credit, or college degrees unrelated to Architecture, are unprepared for ARC 1080 although the computer system waives their prerequisite requirement. Students who have taken ARC 1000 prerequisite course generally meet or exceed this benchmark. We forwarded the above prerequisite waiver information to the Deans Cabinet for review. Plan to continue assessing this benchmark for 2005-2006, however, we will isolate the two populations to clarify and confirm this prerequisite issue is causing the disparity.

When will this be completed? 9/1/2005

Learning Outcome

Students will have a basic understanding of the development and production of residential working drawings, and a basic understanding of residential construction practices.

Benchmark 2

85% of students will be qualified by completion of ARC 1080.

Assessment Method 2

An average score of 85% on presentations to architects, classmates, and instructor, made at various points throughout their program including the standard architectural critique process.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 2

Assessment not implemented.

Learning Outcome
Students will utilize knowledge of codes, research, construction specifications, electrical, mechanical, and structural systems, to create Commercial design development drawings.

Benchmark 1
85% of students will be qualified by completion of ARC 2180.

Assessment Method 1
An average score of at least 80% on all projects assigned.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 1
Assessment not implemented.

Learning Outcome
Students will utilize knowledge of codes, research, construction specifications, electrical, mechanical, and structural systems, to create Commercial design development drawings.

Benchmark 2
85% of students will be qualified by completion of ARC 2180.

Assessment Method 2
An average score of 85% on presentations to Architects, classmates, instructor, made at various points throughout their program including standard architectural critique process.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 2
Assessment not implemented.

Learning Outcome
Students will master problem solving and analytical skills in order to complete assigned projects.

Benchmark 1
Students will utilize mathematical calculations and Physics to identify and analyze structural integrity.

Assessment Method 1
85% of students complete test problems related to structural integrity with a score of 100%.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 1
Assessment not implemented.

Learning Outcome
Students will master problem solving and analytical skills in order to complete assigned projects.

Benchmark 2
Students will utilize mathematical calculations and Physics to identify and analyze structural integrity.

Assessment Method 2
85% of students will correctly identify structural flaws based on the laws of Physics, and formulate corrective actions with 85% accuracy.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 2
Assessment not implemented.

Learning Outcome
Students will develop oral and written technical communications skills.

Benchmark 1
Students will achieve 80% in evaluation by faculty against technical writing standards.

Assessment Method 1
An average score of 85% on presentations to architects, classmates, and instructor, made at various points throughout their program including the standard architectural critique process.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 1
Assessment not implemented.

Learning Outcome
Students will develop oral and written technical communications skills.

Benchmark 2
Students will achieve 80% in evaluation by faculty against technical writing standards.

Assessment Method 2
All graduates must pass ENG 1450, Writing & Reading for Problem Solving.

Benchmark Scheduled To Be Assessed: 5/1/2004

Assessment Results Sent To Office of Assessment & Effectiveness: 6/1/2004

Findings 2
Assessment not implemented.

Curriculum Review Committee
Report & Recommendations for
Architecture program
Held on May 19, 2000

Dr. Sharon Blackman, Dean of Technology and the Technology Department Chair, Tahir Khan presented to the CRC the review information to the best of their abilities. All components were not available or complete. Due to the history of the Architecture program and the absence of a full time faculty member for over two years, a thorough review could not be conducted. Instead, the CRC is recommending a needs analysis to determine the future of this program at OCC.

Recommendations to the ARC program:

1. A thorough needs analysis from the Office of Institutional Research & Planning with input from the Technology Department and the full time faculty member, who will be returning in fall 2000, is greatly needed.
2. The technology department should use the results from this needs assessment to determine the future focus of this program.
   This could be met by exploring the option of coordinating course offerings of architecture and drafting under the umbrella of the new construction management program *or* revising the curriculum for better transferability to the four year institutions *or* creating levels of certification *or* simply proposing minor course revisions to the current curriculum.
3. At the conclusion of this needs assessment; another review will be needed to determine the future of this program. Such a review is to be completed no later than Winter 2002.