

BALTIMORE COUNTY PUBLIC SCHOOLS

DATE: April 17, 2012

TO: **BOARD OF EDUCATION**

FROM: Dr. Joe A. Hairston, Superintendent

SUBJECT: **REPORT ON THE CAREER AND TECHNOLOGY EDUCATION PROGRAM**

ORIGINATOR: Renee A. Foose, Deputy Superintendent

RESOURCE PERSON(S): Roger Plunkett, Assistant Superintendent, Curriculum and Instruction
John Quinn, Executive Director, Science, Technology, Engineering, and Mathematics (STEM)

INFORMATION

That the Board of Education receives a report on the Career and Technology Education (CTE) program.

* * * * *

Attachment I – Exhibit A
Attachment II – Exhibit B
Attachment III – Exhibit C
Attachment IV – Exhibit D
Attachment V – PowerPoint presentation

EXECUTIVE SUMMARY
Career and Technology Education (CTE)
Board Presentation
March 20, 2012

Career and Technology Education (CTE) programs prepare students to be college and career ready by offering academically rigorous programs of study and by supporting the Common Core Standards. Maryland CTE programs of study are statewide model programs designed to prepare high school students for the 21st Century's global economy and its rapidly changing workforce needs. 21st century skills such as adaptability, complex communication skills, and the ability to solve non-routine problems are valuable across a wide range of jobs in the global economy. All CTE programs are aligned to establish academic and technical skill standards to ensure student preparation for college and careers. Upon completion of a Maryland CTE program of study, students also have the option to earn college credits and/or industry-recognized credentials such as certifications and licenses.

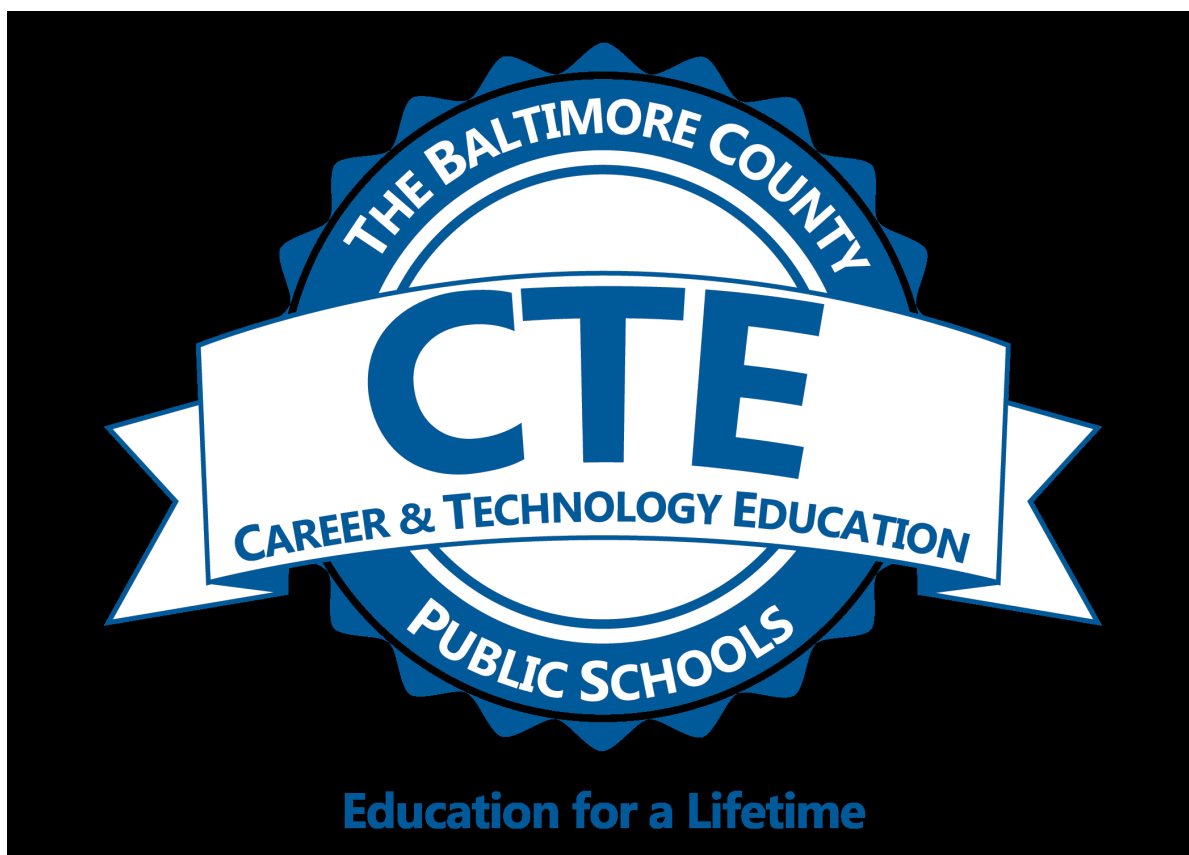
When the report of the Maryland Commission on Vocation-Technical Education was released in 1989, it provided a vision and framework for a new system that today is known as Career and Technology Education (CTE). Since 1992 when then State Superintendent of Schools, Nancy Grasmick, appointed Kathy Oliver to be Assistant State Superintendent of Schools in charge of career and technology education, considerable progress has been made to update, restructure, and evolve vocational-technical education to become what is now called CTE. Today that division at MSDE is the Division of College and Career Readiness. MSDE collaborates with school systems, businesses and higher education to develop and expand CTE programs in high-demand careers, such as those in the STEM disciplines. Maryland leads the nation in the redesign of CTE programs. According to Education Week, Maryland is not only the #1 state for education but also the #1 state for the availability and quality of career programs.

The Board presentation will describe and identify the CTE programs in Baltimore County Public Schools. Also, CTE's alignment with college and workforce readiness will be identified, and CTE's challenges and successes will be outlined.

Career & Technology Education Board Presentation Exhibits March 20, 2012

Table of Contents

Exhibit A Pages 1-2
Exhibit B Pages 3-23
Exhibit C Pages 24-25
Exhibit D Pages 26-52



**BALTIMORE COUNTY PUBLIC SCHOOLS
Career and Technology Education Awards
2010-2011**

- Twenty-one students, representing 6 high schools countywide, competed at the **Future Business Leaders of America (FBLA)** national conference this past summer. The competition was held in Orlando, Florida from June 28 to July 1, 2011, and received a turnout of more than 5,000 students from high schools across the country. The conference hosts over 60 events in which students are eligible to win monetary prizes as well as recognition at an awards ceremony. Students were chaperoned by **Patrick Holt** who is the business department chair and FBLA advisor at **Dundalk High School**.
- **Lansdowne High School's Personal Finance Challenge Team**, coached by business teacher **Mike Martin**, won the Maryland State championship for a second year in a row and progressed to the national competition held in St. Louis. The competition is sponsored by the Maryland Council on Economic Education and the Consumer Counseling Service of Maryland and involves teams of four students each answering questions about personal finance. Lansdowne's Viking team bested 24 other teams representing various public and private schools from across the state.
- For the third year in a row, the culinary management team from **George Washington Carver Center for the Arts and Technology (GWCCAT)** captured top honors in the state during the Maryland Hospitality Education Foundation's annual Maryland ProStart Student Invitational. Culinary students from **Western School of Technology and Environmental Sciences** placed second in the statewide management portion of the competition giving Baltimore County schools a sweep of the division. In the culinary competition, teams from **GWCCAT** and **Sollers Point Technical High School** competed against teams from 16 other schools from Baltimore City and Anne Arundel, Cecil, Howard, Prince George's, and Washington counties. As well as having opportunities to earn scholarships, students who successfully complete the ProStart program qualify for above entry-level positions in the workforce and are on a fast track to management careers and success in postsecondary education.
- **Hager Koraym**, a senior at **Eastern Technical High School**, was named one of only 1,000 Gates Millennium Scholars. Upon graduation, she had fulfilled all requirements for both the college readiness and **Allied Health CTE program** and plans to pursue a career in medicine beginning in the fall. As a Gates Scholar, Koraym can study any subject at any accredited college or university and can apply for additional scholarship money after graduation to continue her education at a graduate school.
- **Matthew Henricks**, an **Information Technology** student at **G. W. Carver Center for the Arts and Technology** was named the 2011 Anthony G. Marchione Scholarship winner at the CTE Student Recognition Dinner held on April 27, 2011, at Martin's West in Woodlawn. The \$3,000 scholarship represented the top honor at the awards dinner, which also

recognized 123 other BCPS' students for their hard work in career and technology education programs.

- Three students from BCPS received environmental studies scholarships from the Oregon Ridge Nature Center. The students who attend **Sparrows Point High School, Randallstown High School, and Western School of Technology and Environmental Sciences** each received a \$4,000 award and plan to pursue environmental studies in college. All three students credit their **environmental education** teachers with cultivating their interest in the subject.
- **Ruth Akers of Sollers Point Technical High School** won the Outstanding Teacher Excellence Award from the Technology and Engineering Educators of Maryland (TEEAM) as well as the High School Teacher Excellence Award from the International Technology and Engineering Educators Association (ITEEA).
- **Hereford Middle School's** robotics team won the middle school division of the 2011 Mid-Atlantic VEX Robotics championship.
- **Frederick Doepkens**, agriscience teacher at **Hereford Middle School**, wrote the book "Farming in Anne Arundel County" and also won last year's PTA Teacher of the Year award. His book was released this past August through Arcadia Publishing.
- **Mark Kather**, an environmental technology teacher at **Western School of Technology and Environmental Sciences** served as a research fellow with The Baltimore Ecosystem Study 2011.
- Students at **Eastern Technical High School**, placed third in the state at the Ford AAA Auto-skills Competition under the direction of automotive technology teacher, **Eldridge Watts**.
- Two students in the **Career Research and Development** program at **Woodlawn High School** earned the National Retail Federation Customer Service Certification.
- **Rachel Martinez**, a senior at **Chesapeake High School** and intern for The Education Channel, won the Baltimore County Young Woman of the Year Award for 2011. Rachel has been a member of many extra-curricular activities, has an excellent academic record, worked two jobs in high school, and participated in many volunteer opportunities. She will be attending Syracuse University for college.
- **Daeyjunaey Evans**, a senior at **Chesapeake High School** and intern in the School-to-Career Transition program, won the Martin Luther King Content of Character Award for 2011. To earn this award, students must have shown exemplary character and made a significant contribution to their community. Daeyjunaey has maintained a high GPA, raised money for arthritis research, and has been an outstanding role model for her peers.

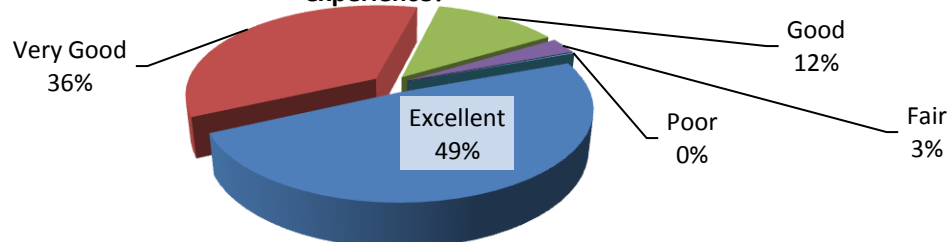
- **Brianna Humphreys**, a Grade 11 Interactive Media Production student at **Eastern Technical High School**, received 2nd place in the 2011 Magnet Schools of America Poster Contest for the high school level. Her artwork effectively captured the theme, “Building Bright Futures... The Magnet Way!” Her poster went on to the National competition to represent Baltimore County. By participating in this contest, Brianna has helped show the importance of magnet programs and Career and Technology Education.
- **Wendy Happel**, FACS department chair and child care teacher at **Lansdowne High School**, won second place in a photo contest to display the theme for 2011 National American Association for Family and Consumer Sciences (AAFCS) conference.
- **Amala Edwards**, student at **Western School of Technology and Environmental Sciences**, won the National Gold Medal for the Food and Beverage competitive event at the 2011 SkillsUSA competition.
- **Ryan Twentey** a photography and computer graphics teacher at Parkville High School was recognized as the **State High School Art Teacher of the Year**.

Maryland State Department of Education
Division of Career and College Readiness
Baltimore County Work-Based Learning Report

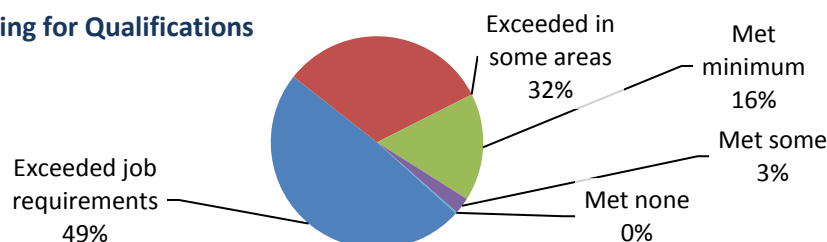
Total number of students in work-based learning	659	
General Cooperative Work Experience	339	51.44%
Capstone Cooperative Work Experience	132	20.03%
Apprenticeship/ Pre-Apprenticeship	1	0.15%
Service-Learning	1	0.15%
Internships	172	26.10%
Mentorships	0	0.00%
Other	8	1.21%

Students in paid positions	%	Average hours worked	Average wage	Average weekly earnings
378	59.2%	23	\$ 8.17	\$ 188.37

What overall rating did the student give the work-based learning experience?

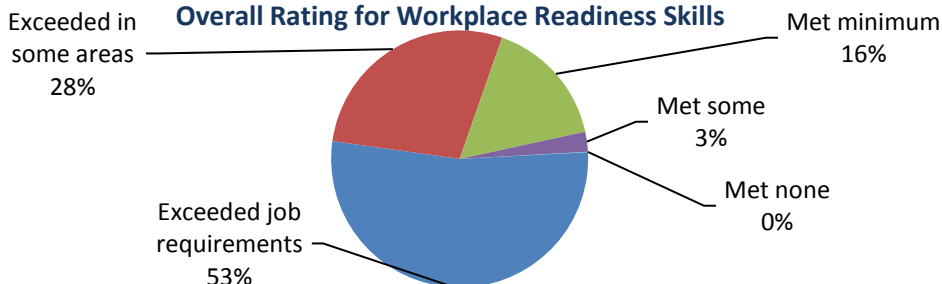


Overall Rating for Qualifications



97.3% of the Baltimore County work-based learning students met or exceeded minimum job requirements for technical skills at the time of employment/ placement

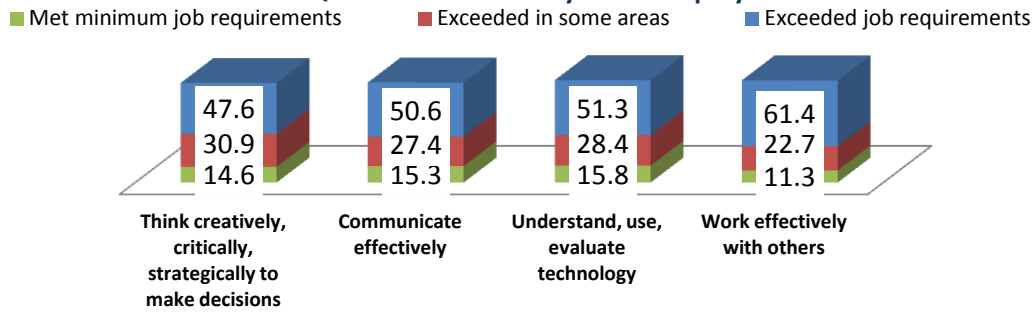
Overall Rating for Workplace Readiness Skills



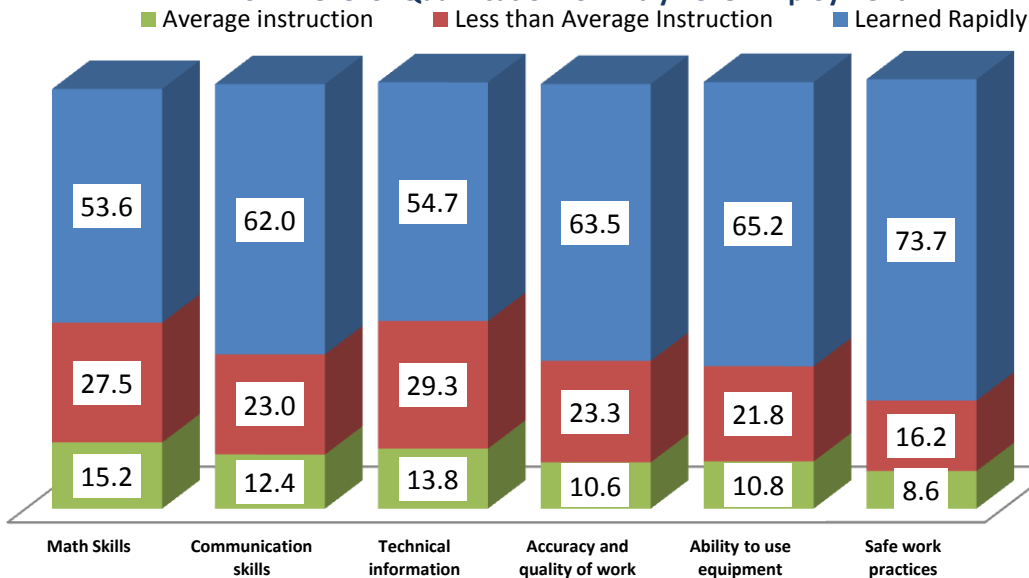
97.4% of the Baltimore County work-based learning students met or exceeded minimum job requirements for workplace readiness skills at the time of employment/ placement

Employer Responses: APPLICATION OF SKILLS

Level of Qualification for Entry-Level Employment

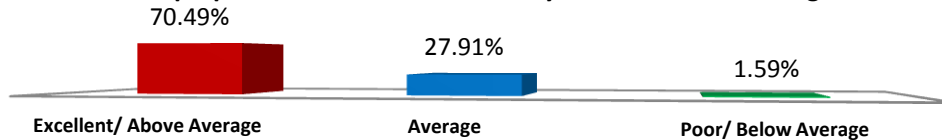


Skill Level of Qualification for Entry-Level Employment

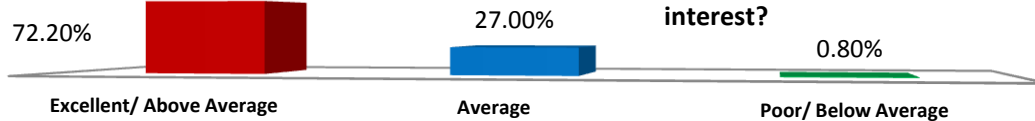


97.5 % of the Baltimore County work-based learning students learned new job skills with average or less average instruction.

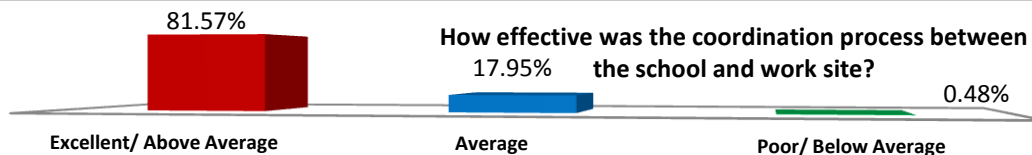
How well prepared were Baltimore County's work-based learning students?



How appropriate was the work site placement, given student experience/ interest?



How effective was the coordination process between the school and work site?

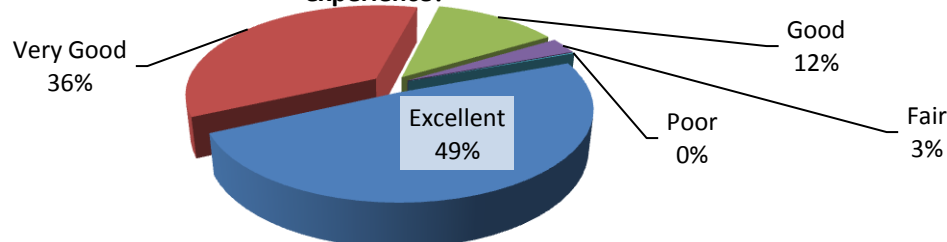


Maryland State Department of Education
Division of Career and College Readiness
Baltimore County Work-Based Learning Report

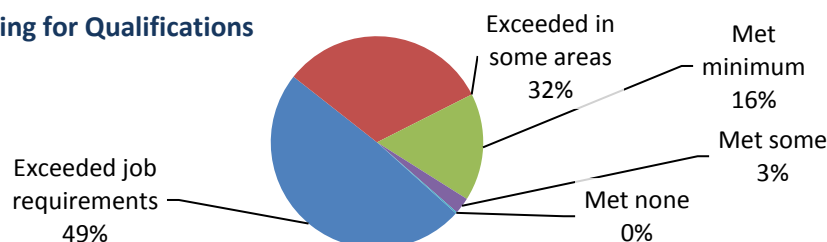
Total number of students in work-based learning	659	
General Cooperative Work Experience	339	51.44%
Capstone Cooperative Work Experience	132	20.03%
Apprenticeship/ Pre-Apprenticeship	1	0.15%
Service-Learning	1	0.15%
Internships	172	26.10%
Mentorships	0	0.00%
Other	8	1.21%

Students in paid positions	%	Average hours worked	Average wage	Average weekly earnings
378	59.2%	23	\$ 8.17	\$ 188.37

What overall rating did the student give the work-based learning experience?



Overall Rating for Qualifications



97.3% of the Baltimore County work-based learning students met or exceeded minimum job requirements for technical skills at the time of employment/ placement

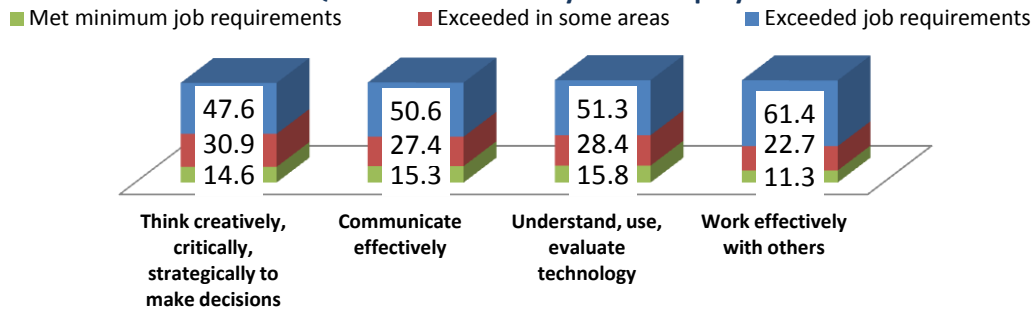
Overall Rating for Workplace Readiness Skills



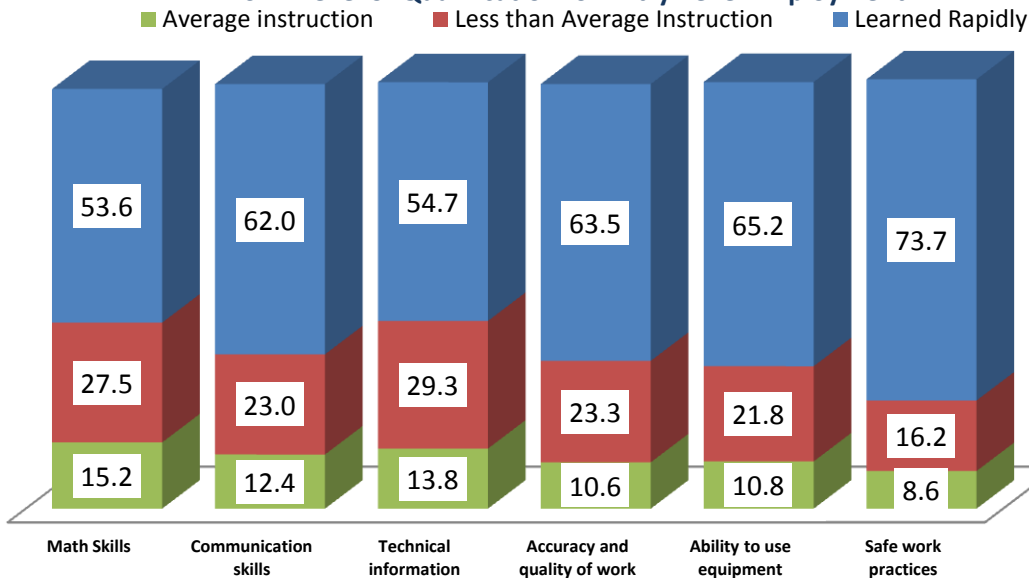
97.4% of the Baltimore County work-based learning students met or exceeded minimum job requirements for workplace readiness skills at the time of employment/ placement

Employer Responses: APPLICATION OF SKILLS

Level of Qualification for Entry-Level Employment

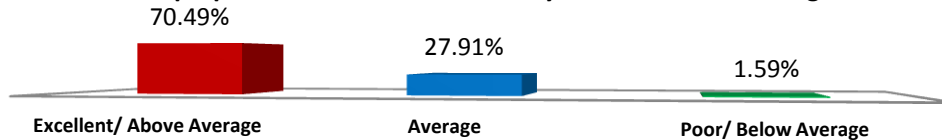


Skill Level of Qualification for Entry-Level Employment

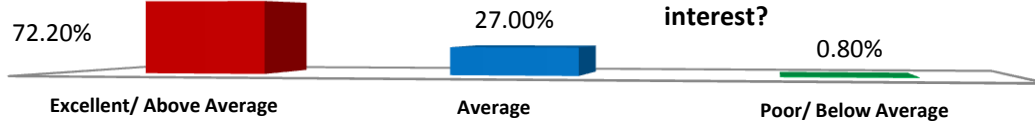


97.5 % of the Baltimore County work-based learning students learned new job skills with average or less average instruction.

How well prepared were Baltimore County's work-based learning students?



How appropriate was the work site placement, given student experience/ interest?



How effective was the coordination process between the school and work site?

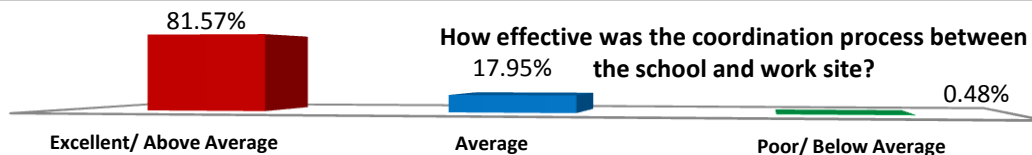
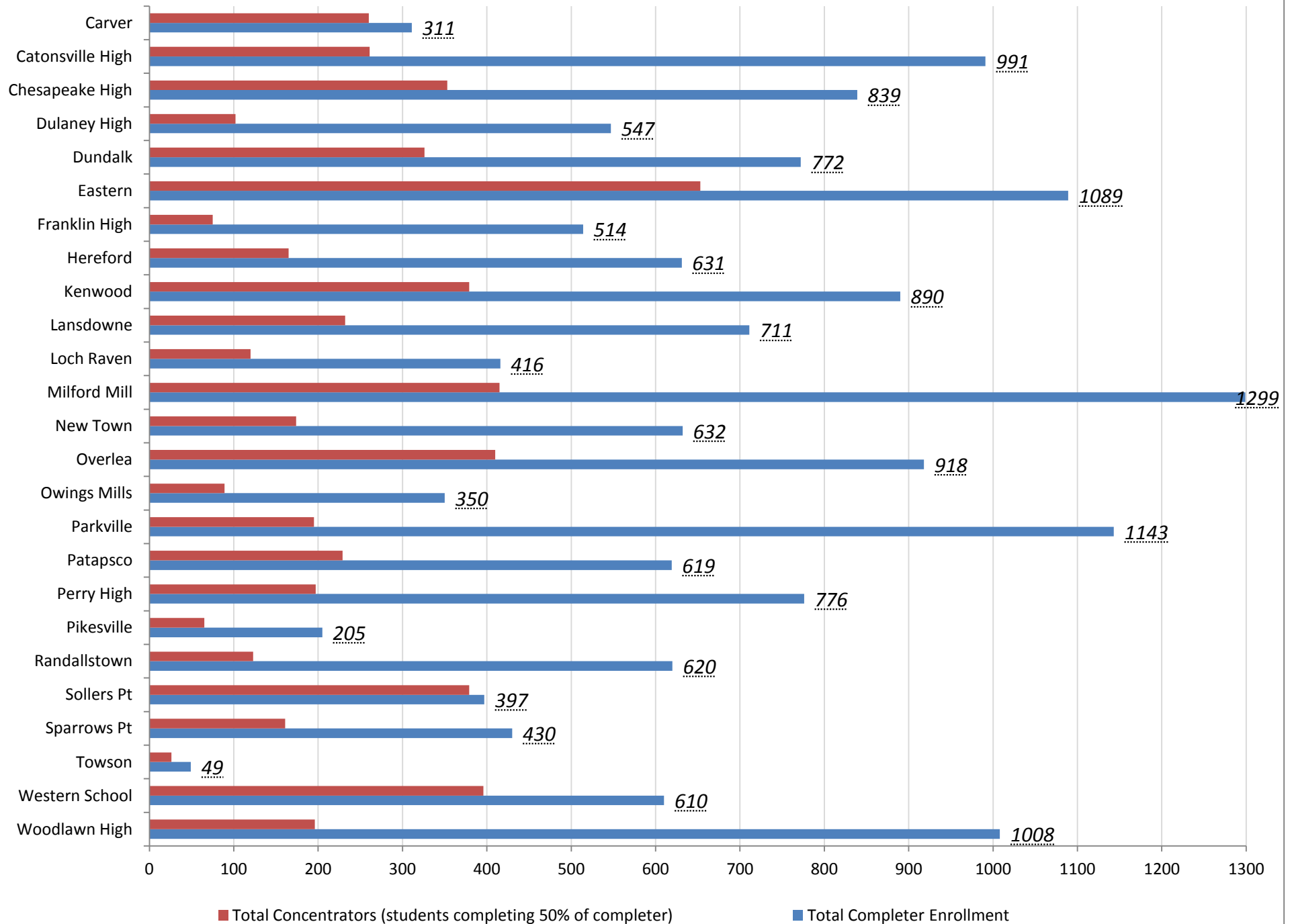


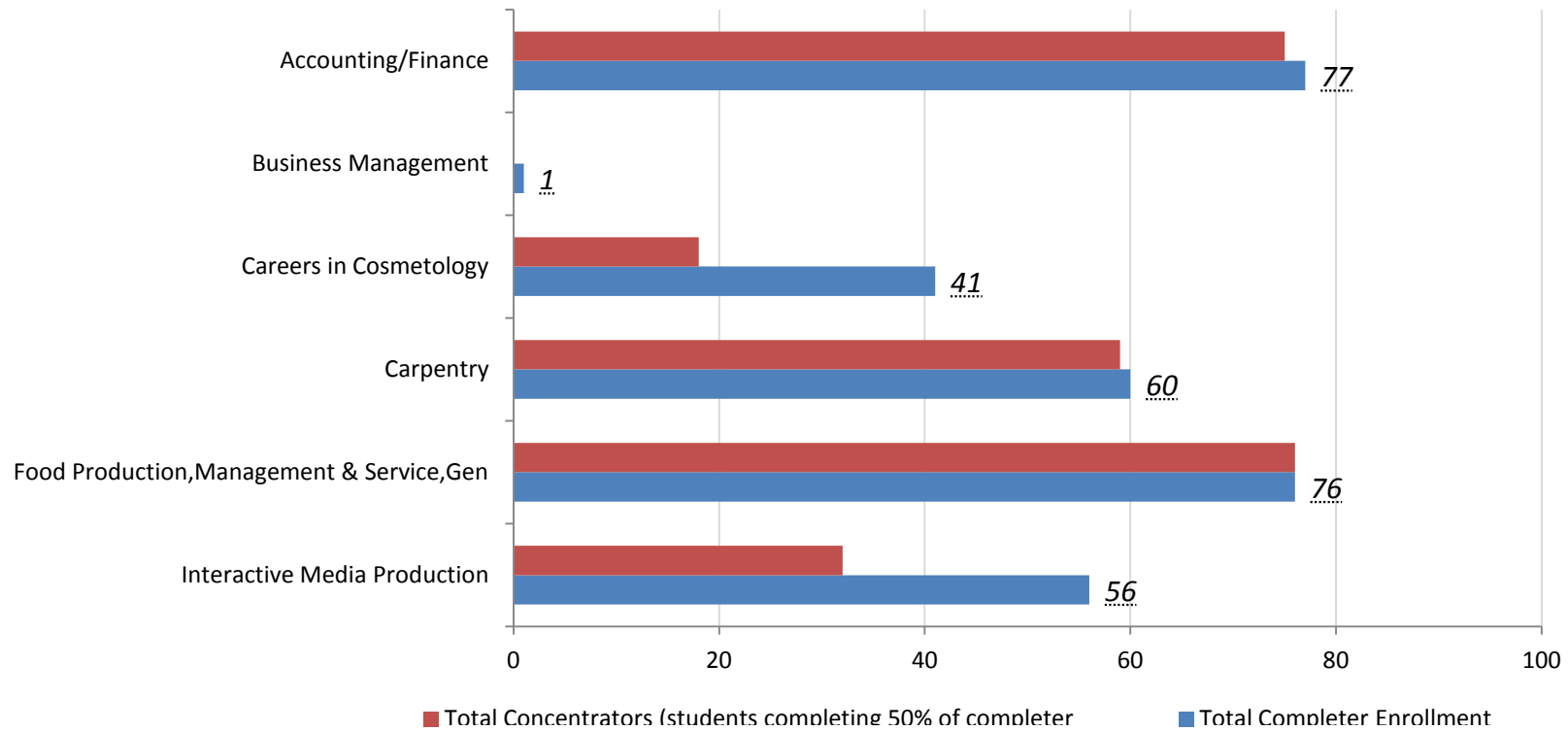
EXHIBIT D

CIP #	CIP Program Name	SCHOOL	# IN CIP	# OF CONCENTRATORS
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Carver	311	260
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Catonsville High	991	261
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Chesapeake High	839	353
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Dulaney High	547	102
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Dundalk	772	326
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Eastern	1089	653
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Franklin High	514	75
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Hereford	631	165
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Kenwood	890	379
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Lansdowne	711	232
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Loch Raven	416	120
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Milford Mill	1299	415
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	New Town	632	174
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Overlea	918	410
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Owings Mills	350	89
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Parkville	1143	195
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Patapsco	619	229
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Perry High	776	197
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Pikesville	205	65
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Randallstown	620	123
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Sollers Pt	397	379
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Sparrows Pt	430	161
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Towson	49	26
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Western School	610	396
ALL CIP #	TOTAL COUNTS FOR SCHOOL:	Woodlawn High	1008	196

2011 Completer Enrollment by School - BCPS

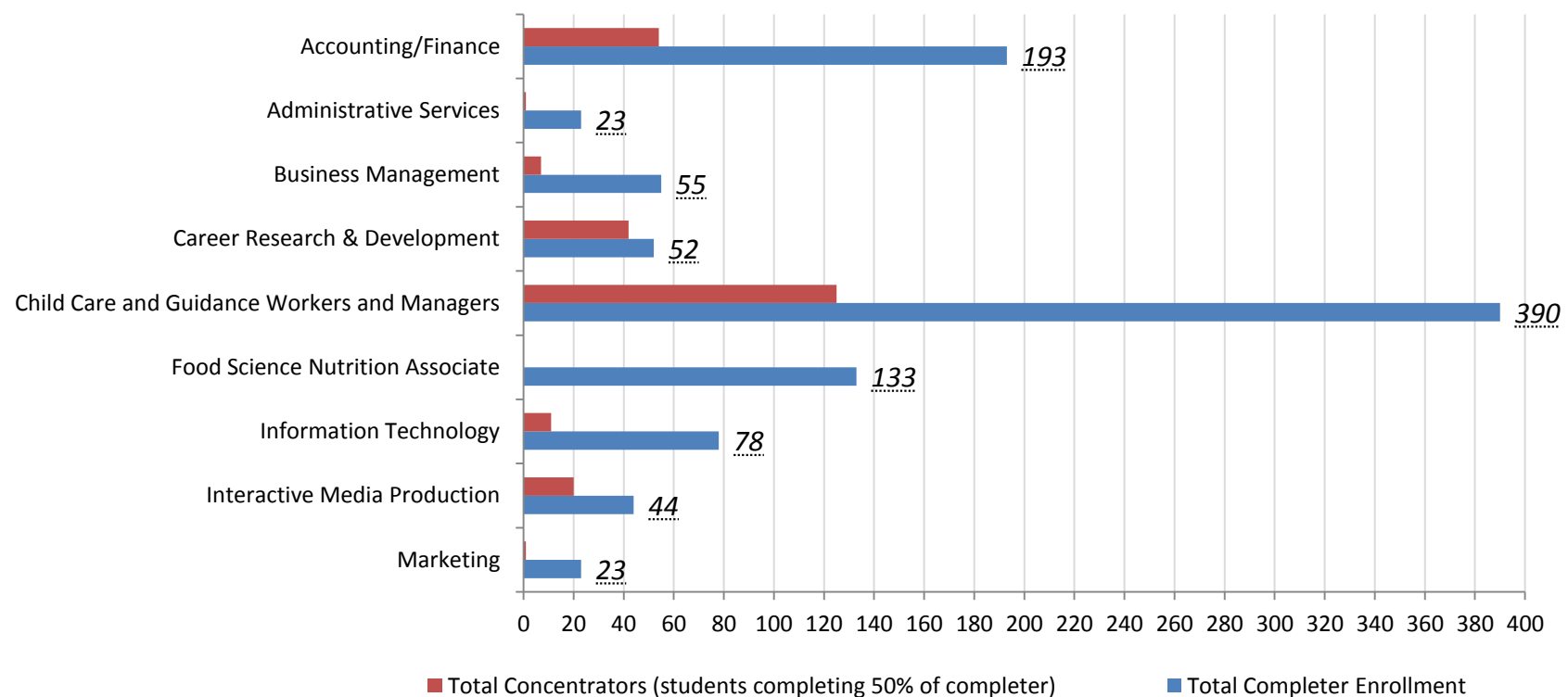


2011 Completer Enrollment by Program - Carver



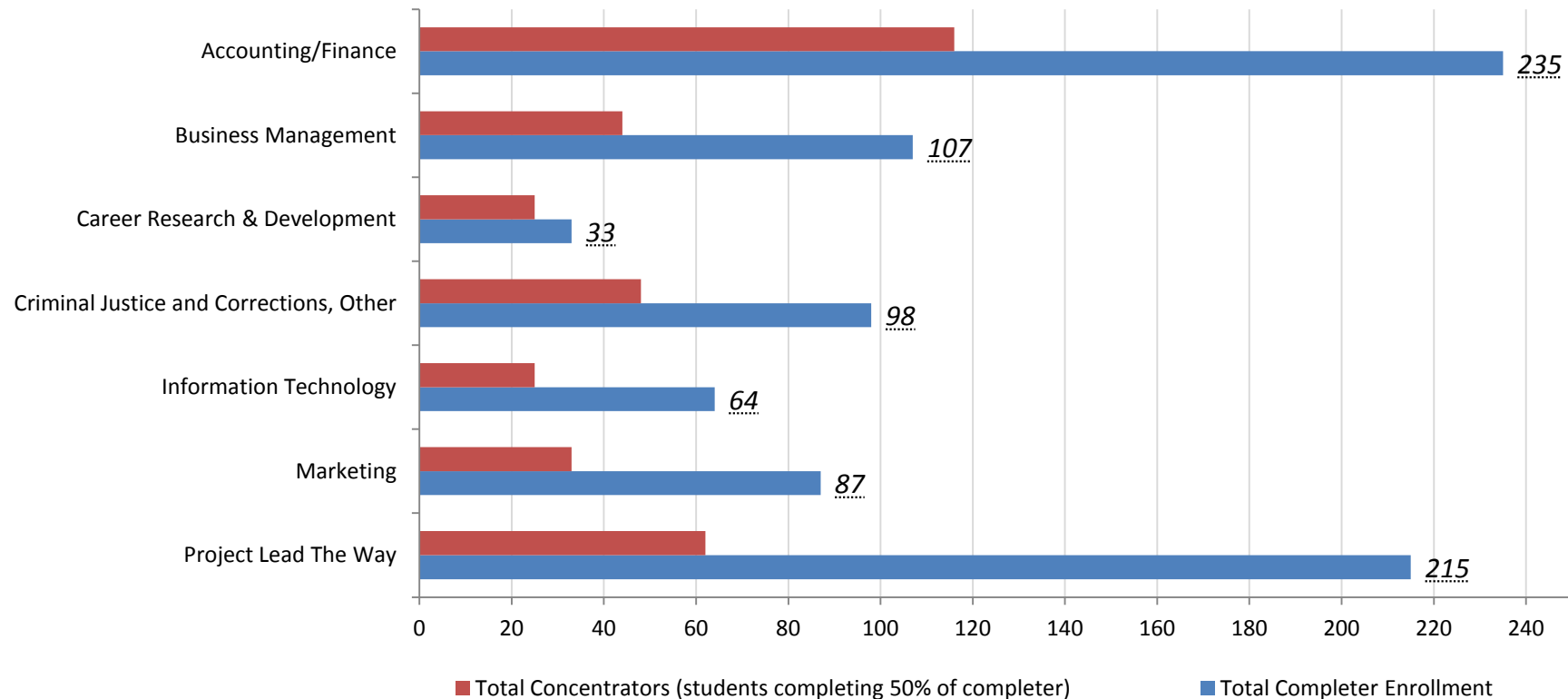
SCHOOL	CIP #	CIP Program Name	# IN CIP	# OF CONCENTRATORS
Carver	1001500	Interactive Media Production	56	32
Carver	2004014	Food Production,Management & Service,Gen	76	76
Carver	4602014	Carpentry	60	59
Carver	1204500	Careers in Cosmetology	41	18
Carver	5202514	Business Management	1	0
Carver	5203544	Accounting/Finance	77	75
Carver	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	311	260

2011 Completer Enrollment by Program - Catonsville



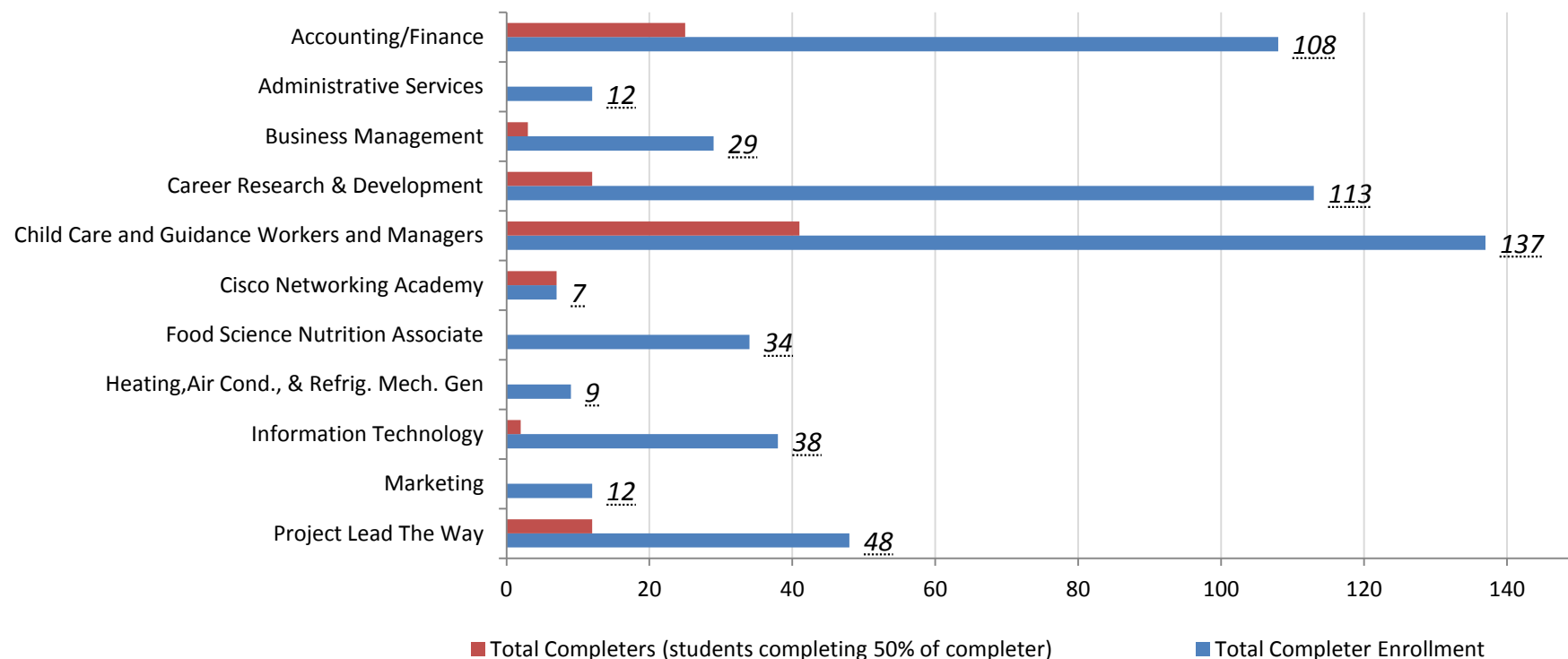
	CIP #	CIP Program Name	# IN CIP	# OF CONCENTRATORS
Catonsville High	5214514	Marketing	23	1
Catonsville High	1001500	Interactive Media Production	44	20
Catonsville High	1101030	Information Technology	78	11
Catonsville High	5131040	Food Science Nutrition Associate	133	0
Catonsville High	2002014	Child Care and Guidance Workers ar	390	125
Catonsville High	8600000	Career Research & Development	52	42
Catonsville High	5202514	Business Management	55	7
Catonsville High	5204514	Administrative Services	23	1
Catonsville High	5203544	Accounting/Finance	193	54
Catonsville High	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	991	261

2011 Completer Enrollment by Program - Chesapeake



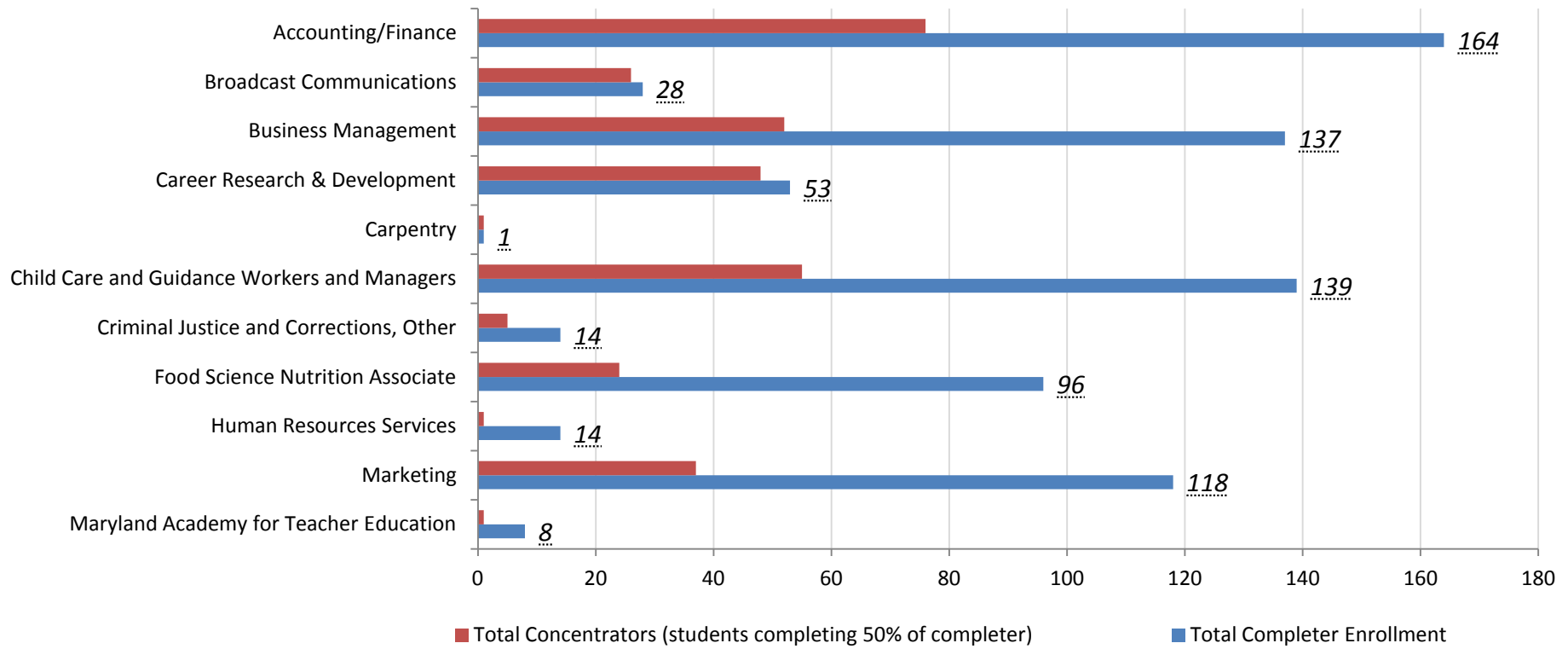
SCHOOL	CIP #	CIP Program Name	# IN CIP	# OF CONCENTRATORS
Chesapeake High	1550000	Project Lead The Way	215	62
Chesapeake High	5214514	Marketing	87	33
Chesapeake High	1101030	Information Technology	64	25
Chesapeake High	4301991	Criminal Justice and Corrections, Otl	98	48
Chesapeake High	8600000	Career Research & Development	33	25
Chesapeake High	5202514	Business Management	107	44
Chesapeake High	5203544	Accounting/Finance	235	116
Chesapeake High	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	839	353

2011 Completer Enrollment by Program - Dulaney



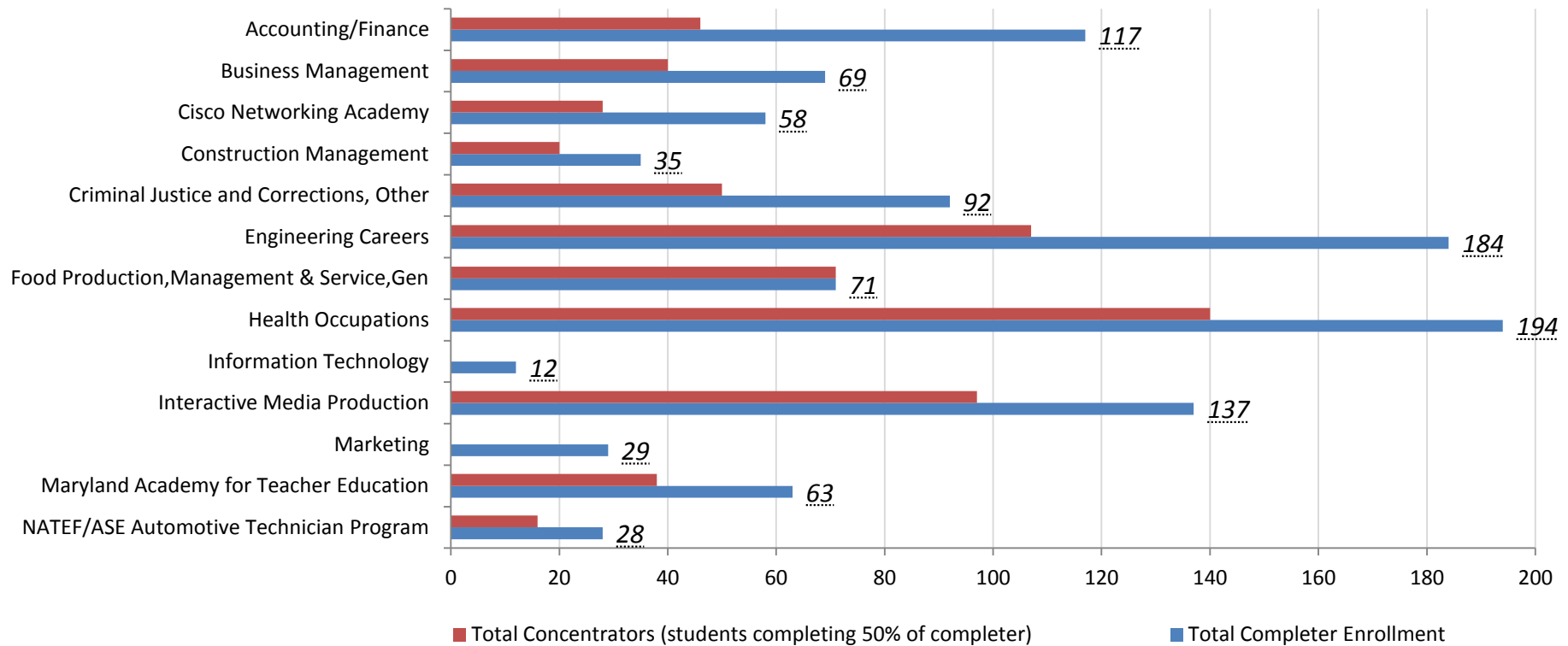
SCHOOL	CIP #	CIP Program Name	# IN CIP	# OF CONCENTRATORS
Dulaney High	1550000	Project Lead The Way	48	12
Dulaney High	5214514	Marketing	12	0
Dulaney High	1101030	Information Technology	38	2
Dulaney High	4702014	Heating,Air Cond., & Refrig. Mech. C	9	0
Dulaney High	5131040	Food Science Nutrition Associate	34	0
Dulaney High	1109500	Cisco Networking Academy	7	7
Dulaney High	2002014	Child Care and Guidance Workers ar	137	41
Dulaney High	8600000	Career Research & Development	113	12
Dulaney High	5202514	Business Management	29	3
Dulaney High	5204514	Administrative Services	12	0
Dulaney High	5203544	Accounting/Finance	108	25
Dulaney High	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	547	102

2011 Completer Enrollment by Program - Dundalk



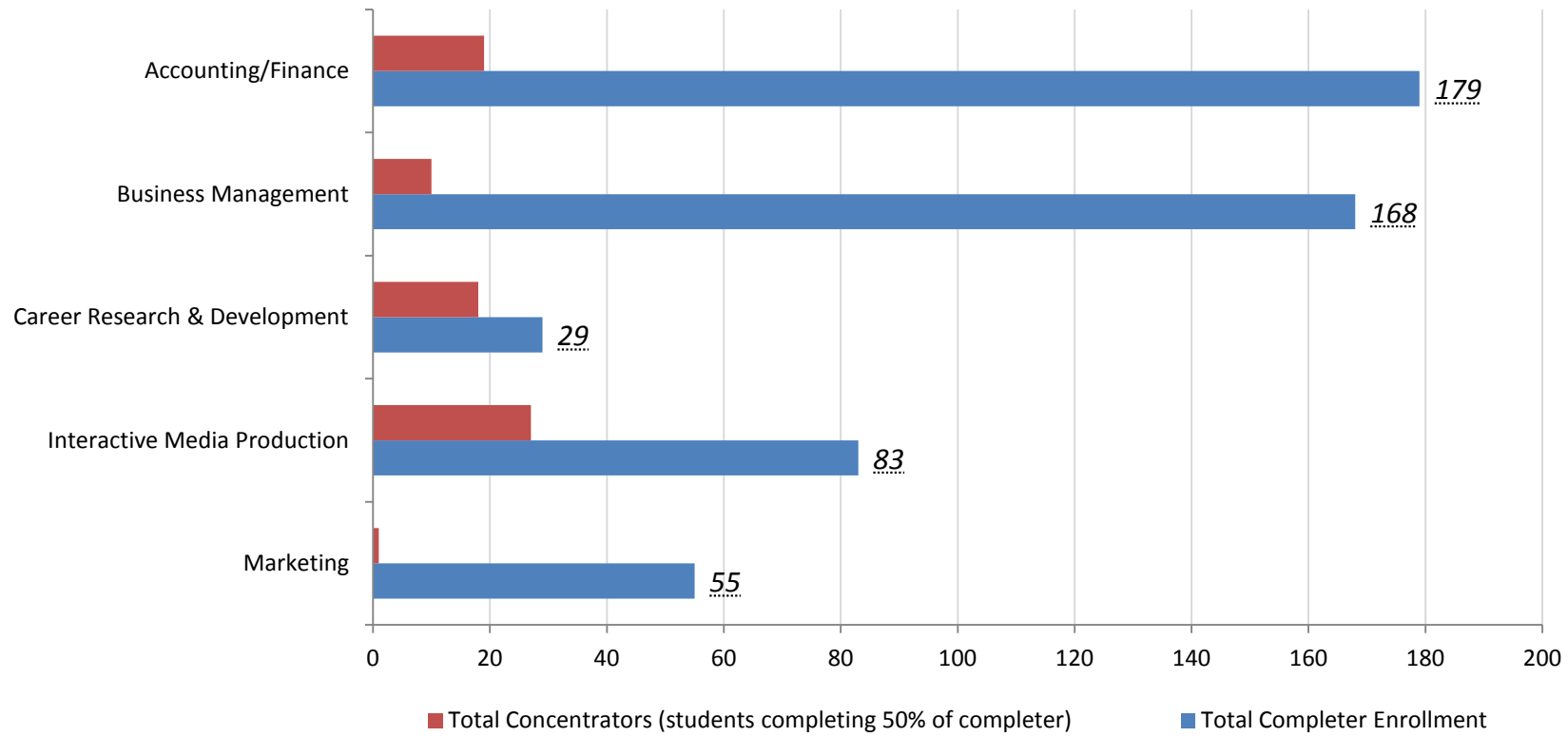
SCHOOL	CIP #	CIP Program Name	# IN CIP	# OF CONCENTRATORS
Dundalk	1301500	Maryland Academy for Teacher Education	8	1
Dundalk	5214514	Marketing	118	37
Dundalk	4400004	Human Resources Services	14	1
Dundalk	5131040	Food Science Nutrition Associate	96	24
Dundalk	4301991	Criminal Justice and Corrections, Other	14	5
Dundalk	2002014	Child Care and Guidance Workers and Manager	139	55
Dundalk	4602014	Carpentry	1	1
Dundalk	8600000	Career Research & Development	53	48
Dundalk	5202514	Business Management	137	52
Dundalk	5007064	Broadcast Communications	28	26
Dundalk	5203544	Accounting/Finance	164	76
Dundalk	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	772	326

2011 Completer Enrollment by Program - Eastern



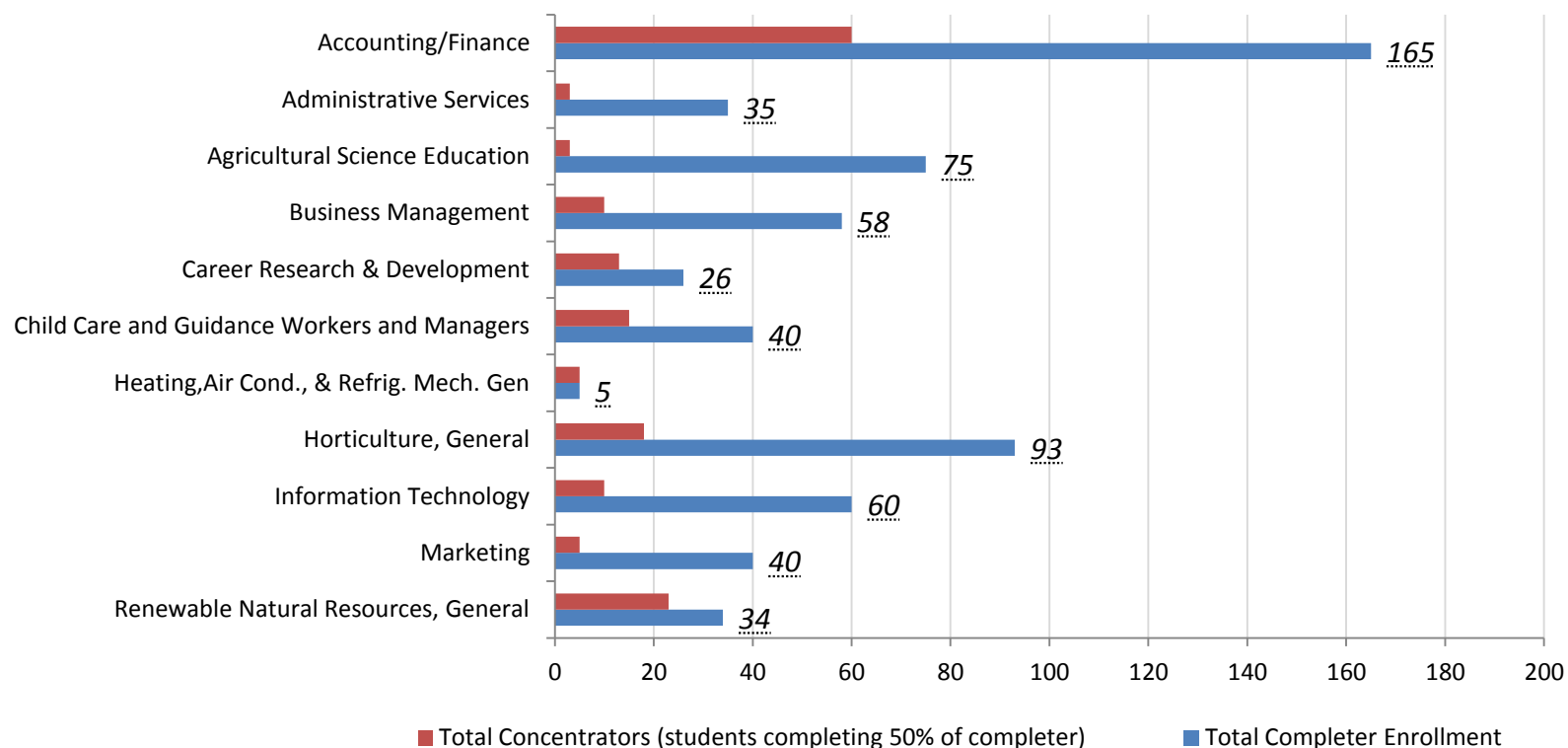
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Eastern	4706450	NATEF/ASE Automotive Technician P	28	16
Eastern	1301500	Maryland Academy for Teacher Edu	63	38
Eastern	5214514	Marketing	29	0
Eastern	1001500	Interactive Media Production	137	97
Eastern	1101030	Information Technology	12	0
Eastern	5199991	Health Occupations	194	140
Eastern	2004014	Food Production, Management & Se	71	71
Eastern	1401014	Engineering Careers	184	107
Eastern	4301991	Criminal Justice and Corrections, Otl	92	50
Eastern	5220014	Construction Management	35	20
Eastern	1109500	Cisco Networking Academy	58	28
Eastern	5202514	Business Management	69	40
Eastern	5203544	Accounting/Finance	117	46
Eastern	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	1089	653

2011 Completer Enrollment by Program - Franklin



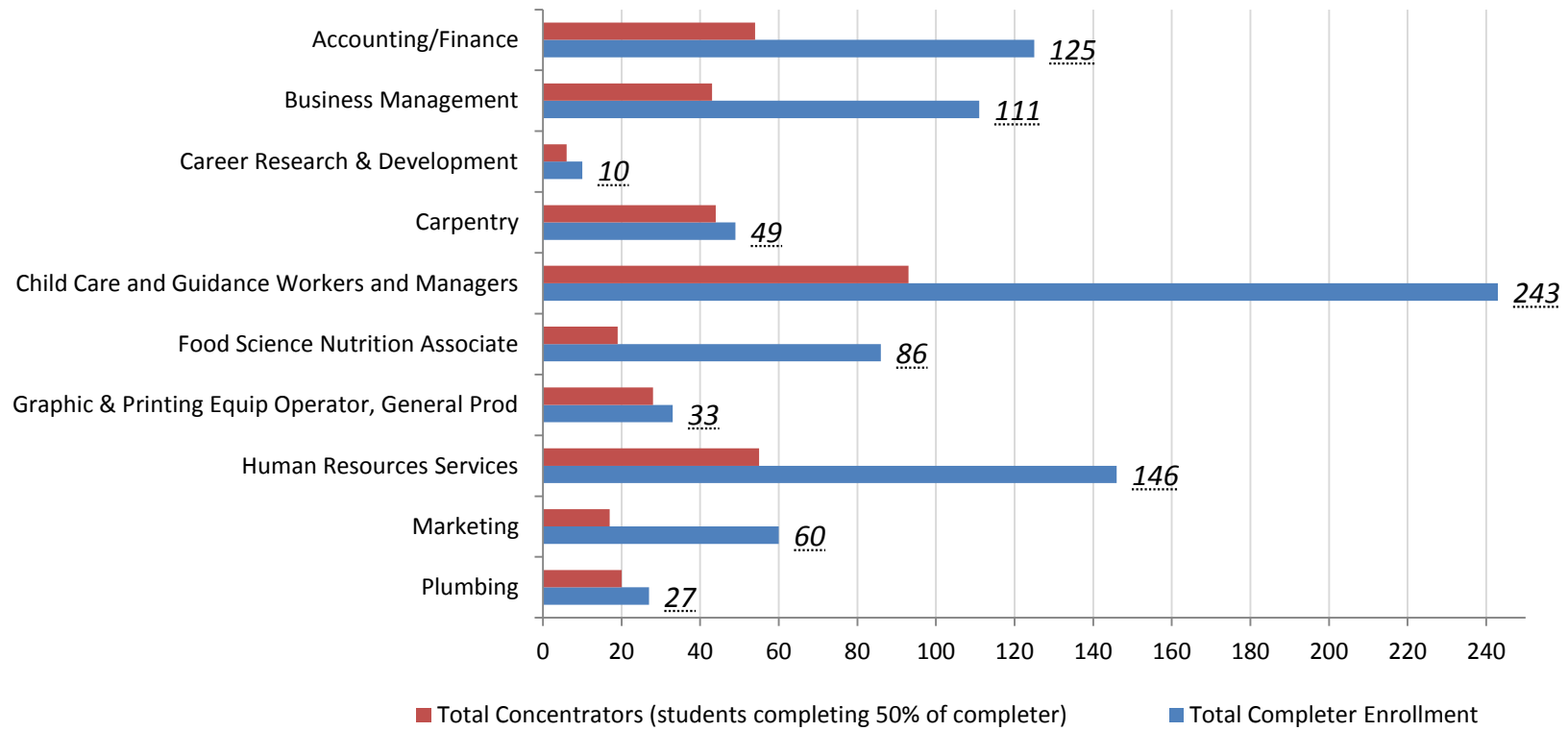
SCHOOL	CIP #	CIP Program Name	# IN CIP	# OF CONCENTRATORS
Franklin High	5214514	Marketing	55	1
Franklin High	1001500	Interactive Media Production	83	27
Franklin High	8600000	Career Research & Development	29	18
Franklin High	5202514	Business Management	168	10
Franklin High	5203544	Accounting/Finance	179	19
Franklin High	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	514	75

2011 Completer Enrollment by Program - Hereford



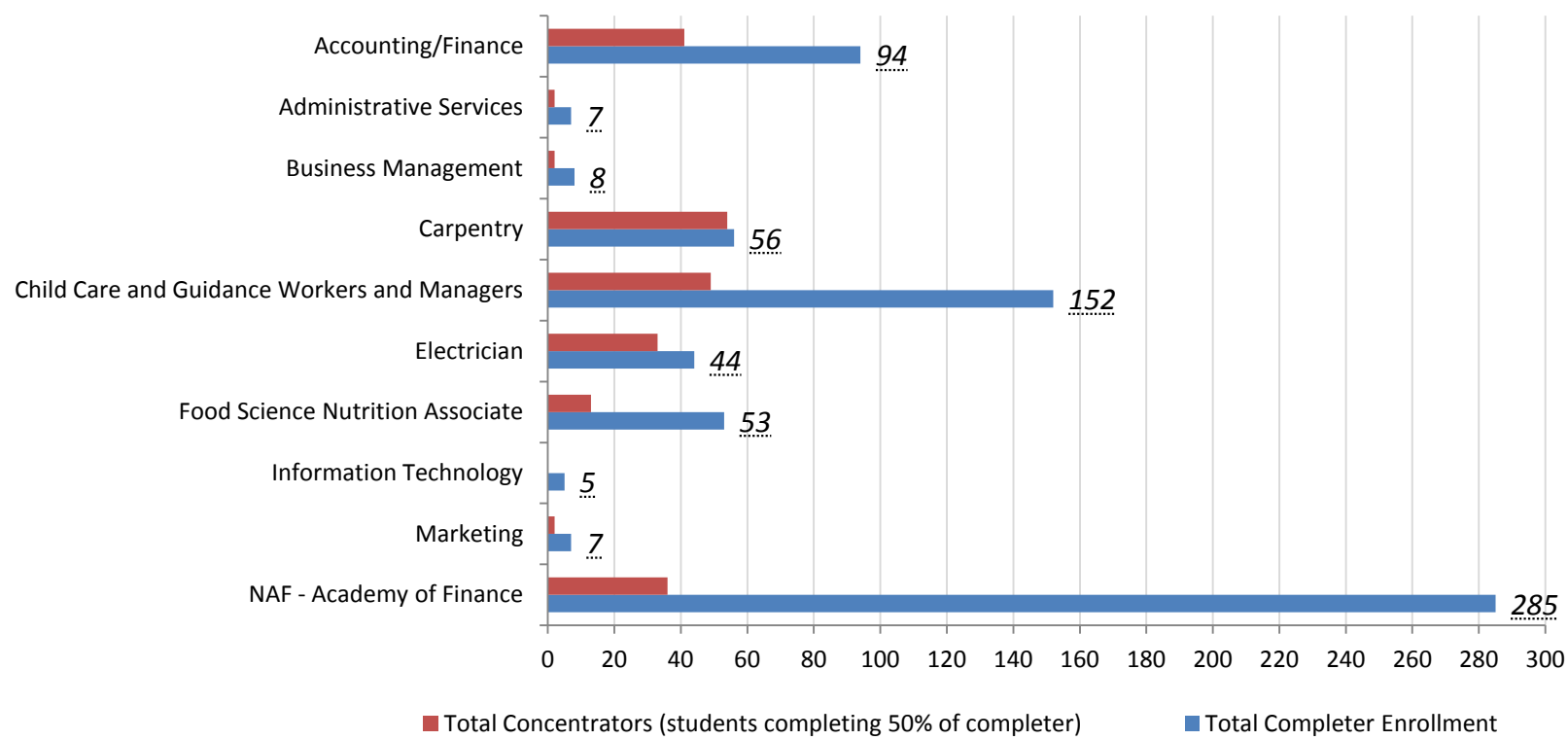
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Hereford	301014	Renewable Natural Resources, Gene	34	23
Hereford	5214514	Marketing	40	5
Hereford	1101030	Information Technology	60	10
Hereford	106014	Horticulture, General	93	18
Hereford	4702014	Heating, Air Cond., & Refrig. Mech. G	5	5
Hereford	2002014	Child Care and Guidance Workers ar	40	15
Hereford	8600000	Career Research & Development	26	13
Hereford	5202514	Business Management	58	10
Hereford	100500	Agricultural Science Education	75	3
Hereford	5204514	Administrative Services	35	3
Hereford	5203544	Accounting/Finance	165	60
Hereford	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	631	165

2011 Completer Enrollment by Program - Kenwood



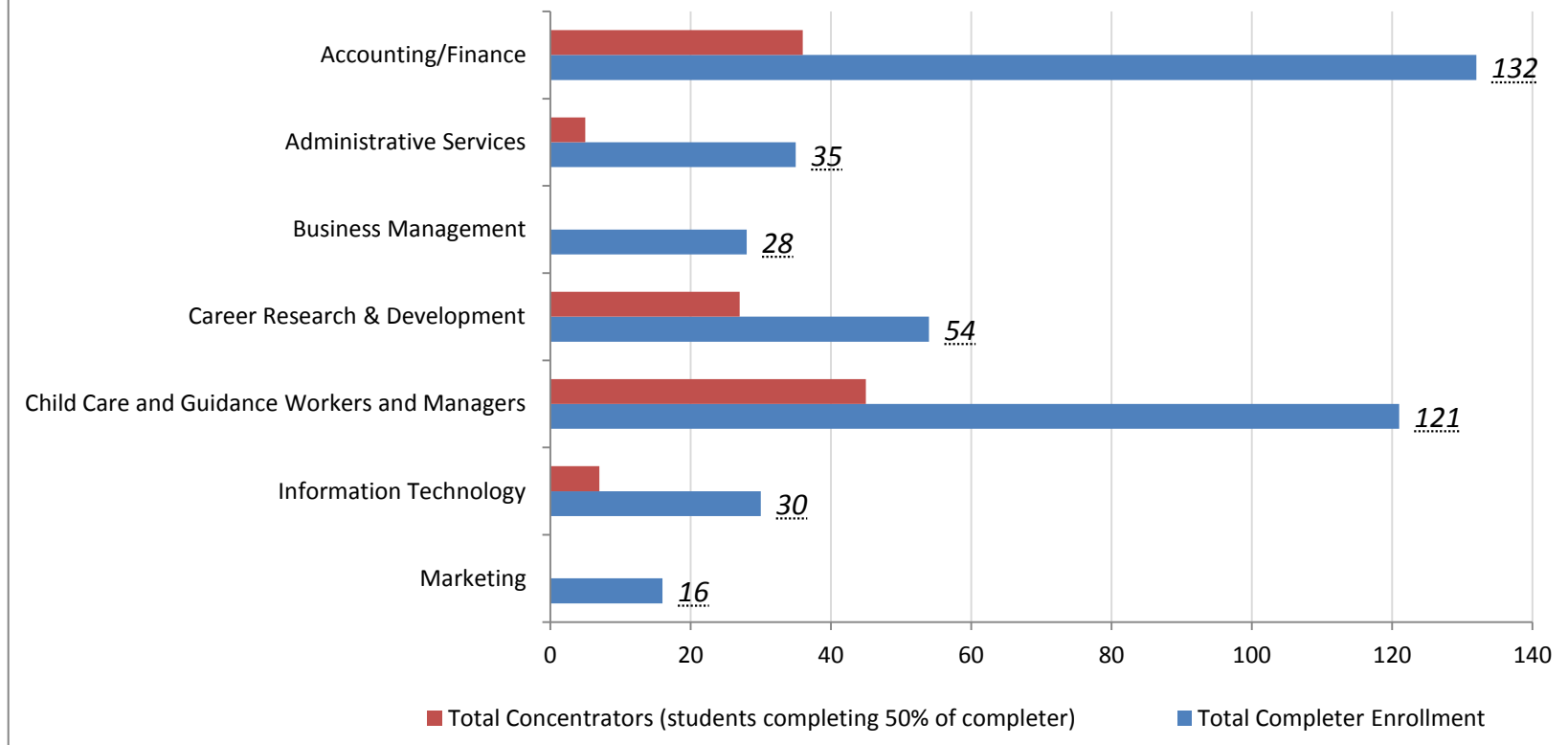
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Kenwood	4605014	Plumbing	27	20
Kenwood	5214514	Marketing	60	17
Kenwood	4400004	Human Resources Services	146	55
Kenwood	1003500	Graphic & Printing Equip Operator, (33	28
Kenwood	5131040	Food Science Nutrition Associate	86	19
Kenwood	2002014	Child Care and Guidance Workers ar	243	93
Kenwood	4602014	Carpentry	49	44
Kenwood	8600000	Career Research & Development	10	6
Kenwood	5202514	Business Management	111	43
Kenwood	5203544	Accounting/Finance	125	54
Kenwood	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	890	379

2011 Completer Enrollment by Program - Lansdowne



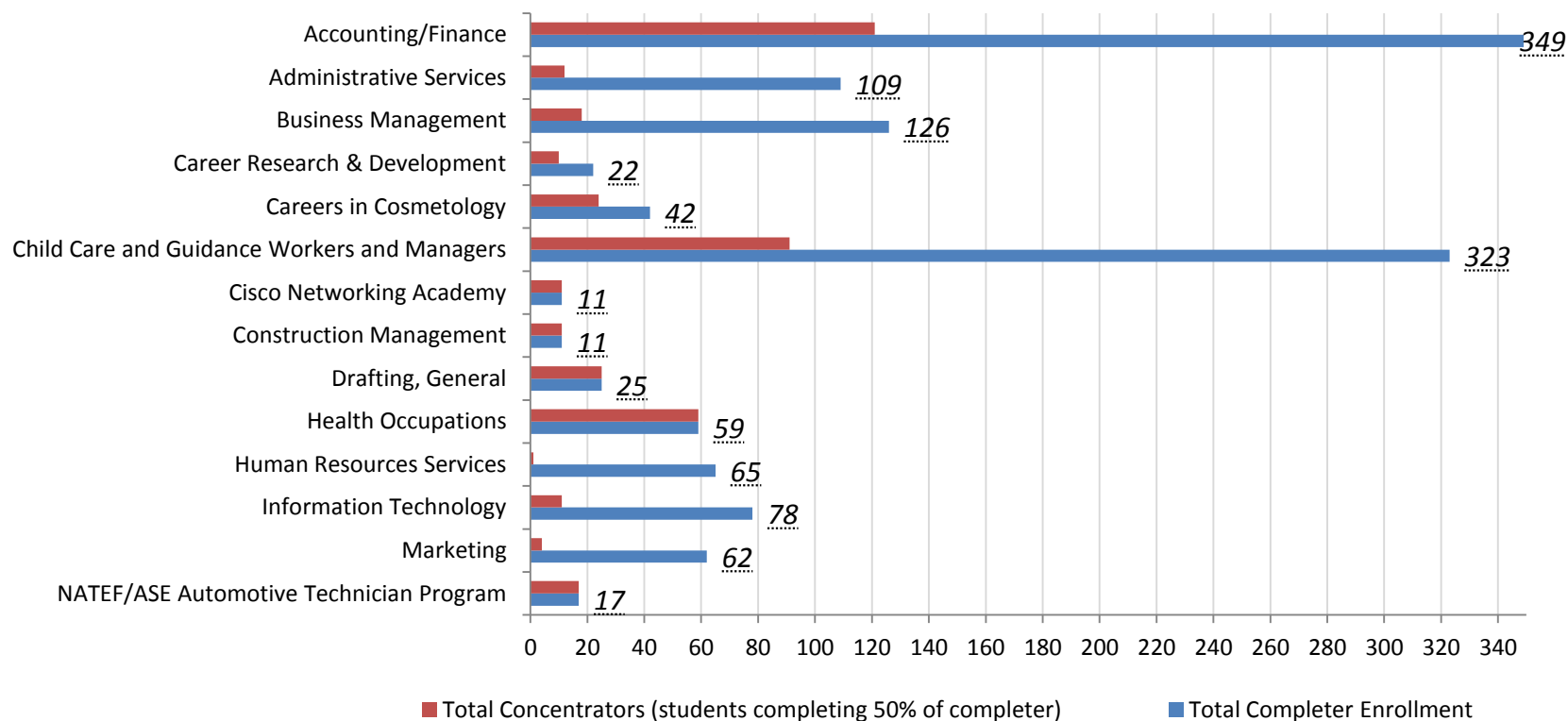
SCHOOL	CIP #	CIP Program Name	# IN CIP	CONCENTRATORS
Lansdowne	5208504	NAF - Academy of Finance	285	36
Lansdowne	5214514	Marketing	7	2
Lansdowne	1101030	Information Technology	5	0
Lansdowne	5131040	Food Science Nutrition Associate	53	13
Lansdowne	4603024	Electrician	44	33
Lansdowne	2002014	Child Care and Guidance Workers ar	152	49
Lansdowne	4602014	Carpentry	56	54
Lansdowne	5202514	Business Management	8	2
Lansdowne	5204514	Administrative Services	7	2
Lansdowne	5203544	Accounting/Finance	94	41
Lansdowne	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	711	232

2011 Completer Enrollment by Program - Loch Raven



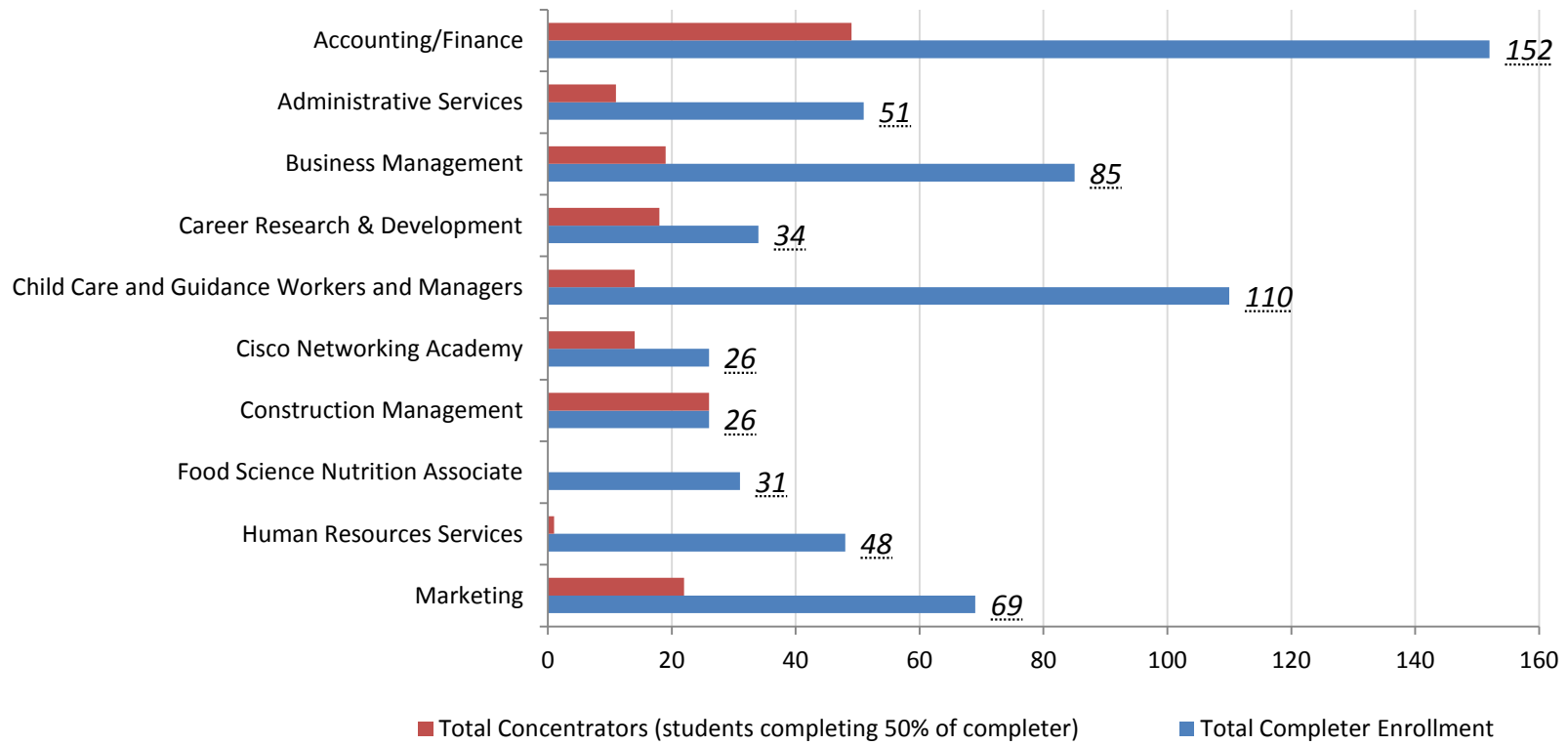
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Loch Raven	5214514	Marketing	16	0
Loch Raven	1101030	Information Technology	30	7
Loch Raven	2002014	Child Care and Guidance Workers ar	121	45
Loch Raven	8600000	Career Research & Development	54	27
Loch Raven	5202514	Business Management	28	0
Loch Raven	5204514	Administrative Services	35	5
Loch Raven	5203544	Accounting/Finance	132	36
Loch Raven	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	416	120

2011 Completer Enrollment by Program - Milford Mill



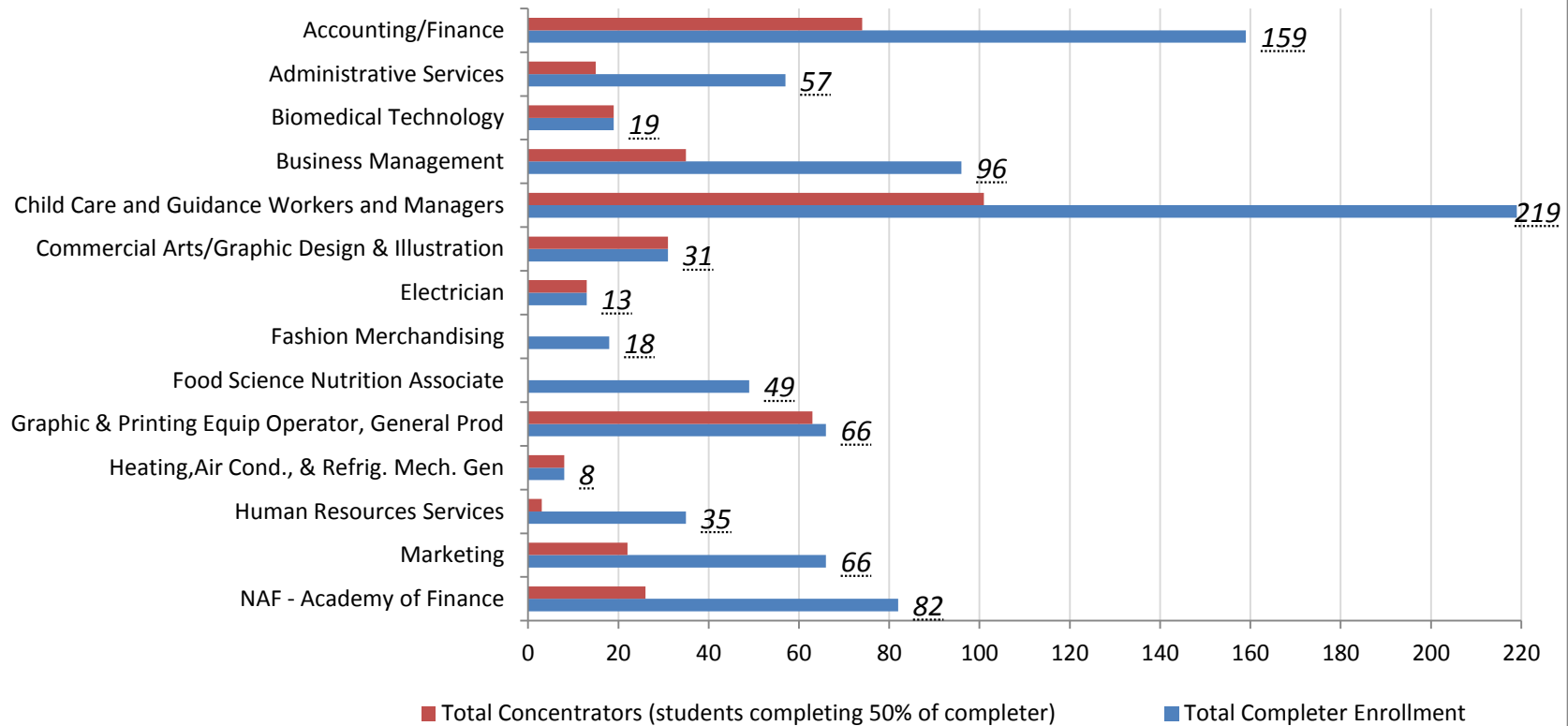
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Milford Mill	4706450	NATEF/ASE Automotive Technician I	17	17
Milford Mill	5214514	Marketing	62	4
Milford Mill	1101030	Information Technology	78	11
Milford Mill	4400004	Human Resources Services	65	1
Milford Mill	5199991	Health Occupations	59	59
Milford Mill	4801014	Drafting, General	25	25
Milford Mill	5220014	Construction Management	11	11
Milford Mill	1109500	Cisco Networking Academy	11	11
Milford Mill	2002014	Child Care and Guidance Workers ar	323	91
Milford Mill	1204500	Careers in Cosmetology	42	24
Milford Mill	8600000	Career Research & Development	22	10
Milford Mill	5202514	Business Management	126	18
Milford Mill	5204514	Administrative Services	109	12
Milford Mill	5203544	Accounting/Finance	349	121
Milford Mill	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	1299	415

2011 Completer Enrollment by Program - New Town



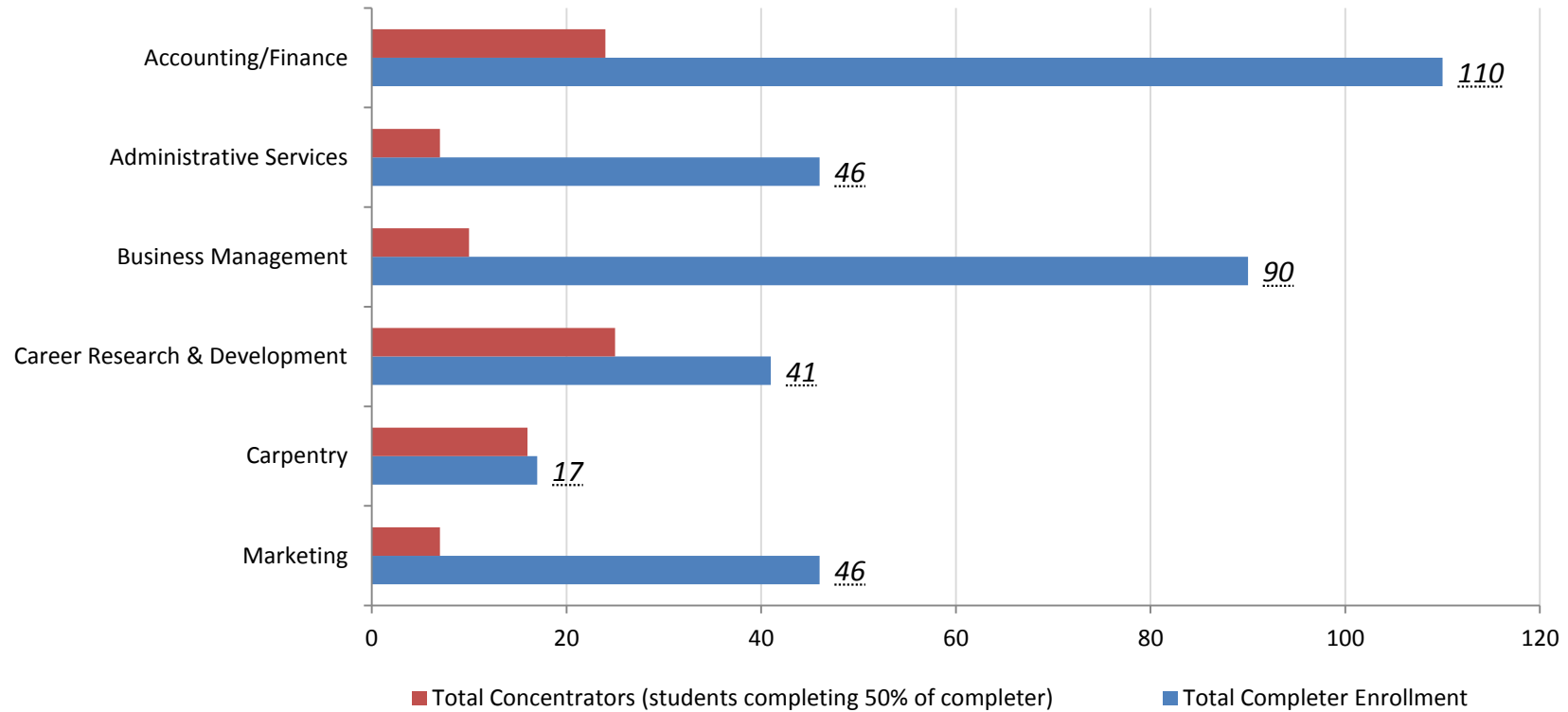
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
New Town	5214514	Marketing	69	22
New Town	4400004	Human Resources Services	48	1
New Town	5131040	Food Science Nutrition Associate	31	0
New Town	5220014	Construction Management	26	26
New Town	1109500	Cisco Networking Academy	26	14
New Town	2002014	Child Care and Guidance Workers ar	110	14
New Town	8600000	Career Research & Development	34	18
New Town	5202514	Business Management	85	19
New Town	5204514	Administrative Services	51	11
New Town	5203544	Accounting/Finance	152	49
New Town	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	632	174

2011 Completer Enrollment by Program - Overlea



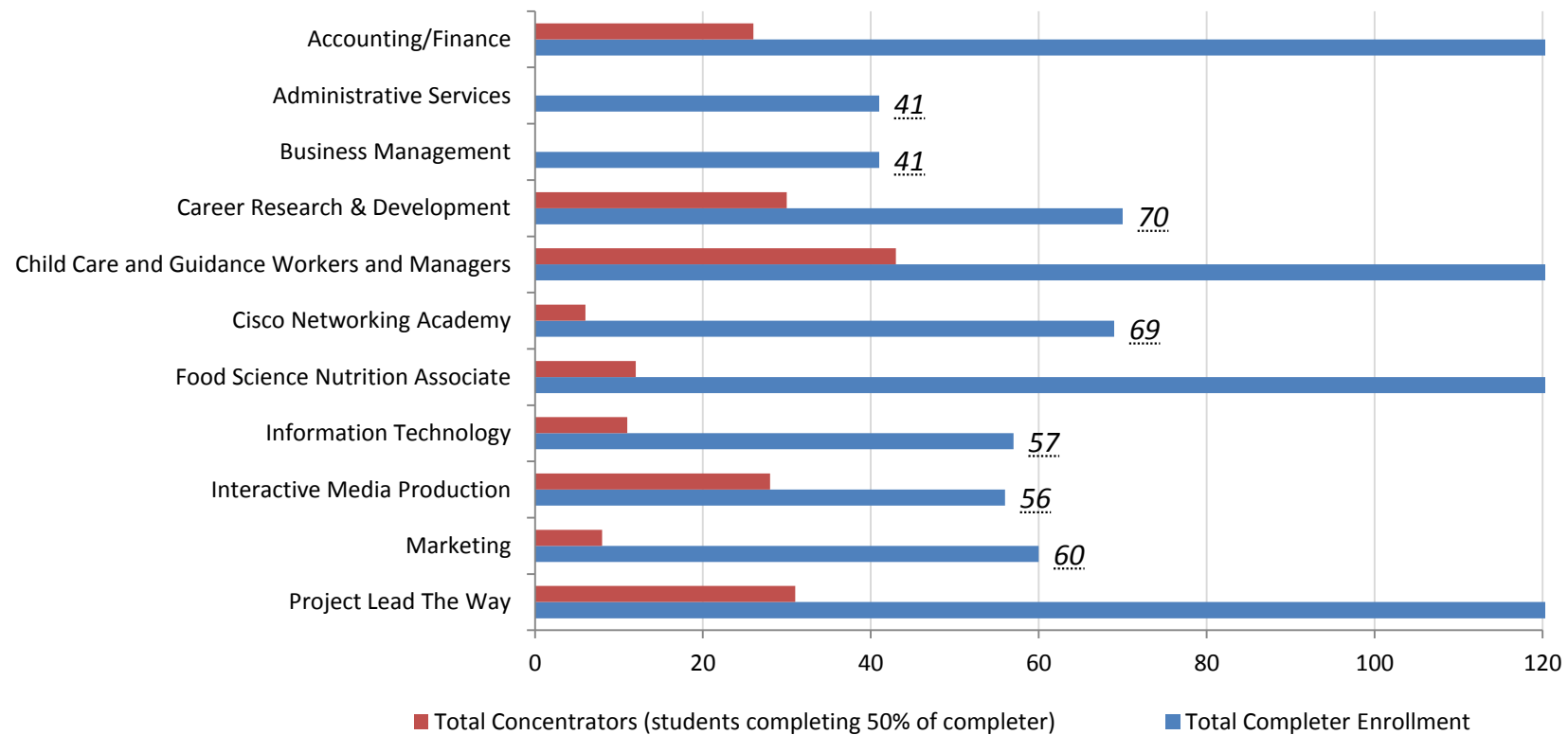
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Overlea	5208504	NAF - Academy of Finance	82	26
Overlea	5214514	Marketing	66	22
Overlea	4400004	Human Resources Services	35	3
Overlea	4702014	Heating,Air Cond., & Refrig. Mech. C	8	8
Overlea	1003500	Graphic & Printing Equip Operator, (66	63
Overlea	5131040	Food Science Nutrition Associate	49	0
Overlea	801024	Fashion Merchandising	18	0
Overlea	4603024	Electrician	13	13
Overlea	5004024	Commercial Arts/Graphic Design & I	31	31
Overlea	2002014	Child Care and Guidance Workers ar	219	101
Overlea	5202514	Business Management	96	35
Overlea	5111500	Biomedical Technology	19	19
Overlea	5204514	Administrative Services	57	15
Overlea	5203544	Accounting/Finance	159	74
Overlea	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	918	410

2011 Completer Enrollment by Program - Owings Mills



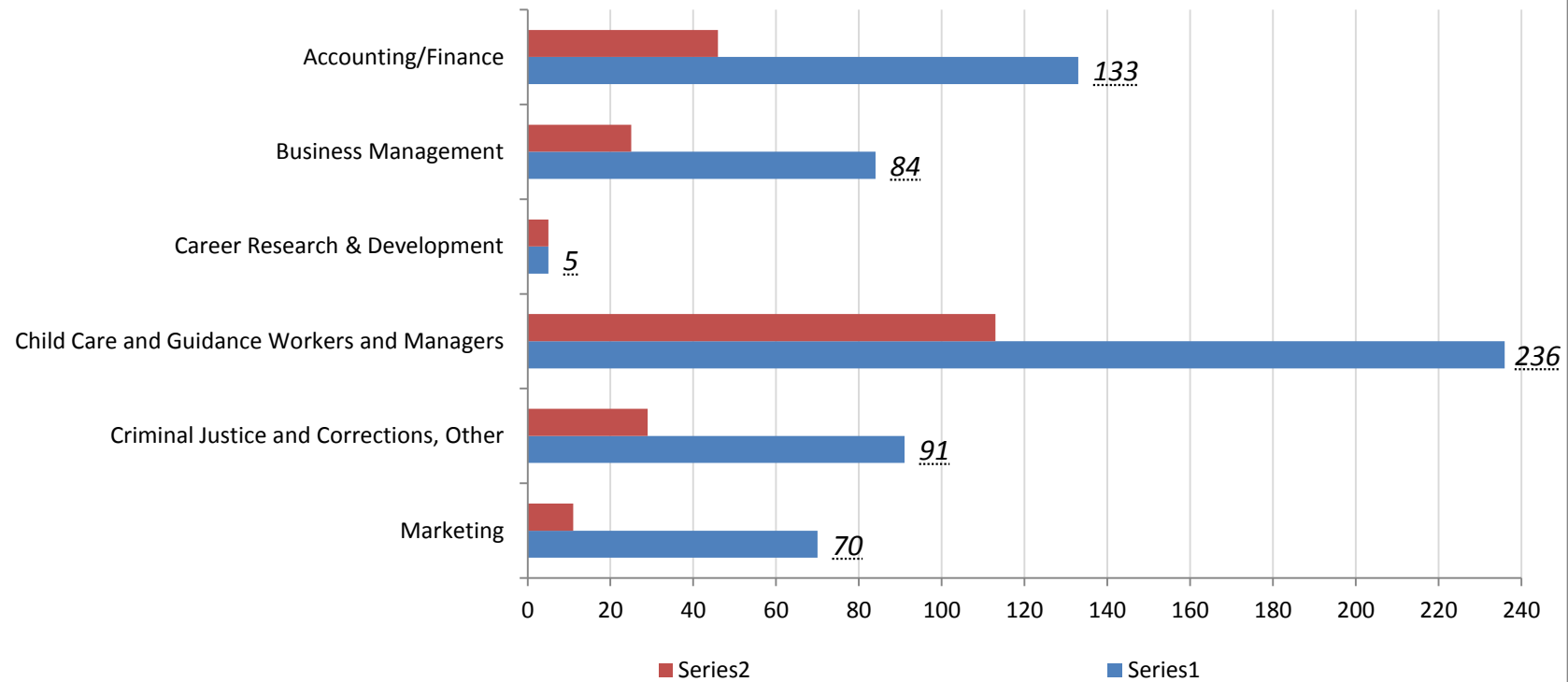
SCHOOL	CIP #	CIP Program Name	# IN CIP	= CONCENTRATORS
Owings Mills	5214514	Marketing	46	7
Owings Mills	4602014	Carpentry	17	16
Owings Mills	8600000	Career Research & Development	41	25
Owings Mills	5202514	Business Management	90	10
Owings Mills	5204514	Administrative Services	46	7
Owings Mills	5203544	Accounting/Finance	110	24
Owings Mills	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	350	89

2011 Completer Enrollment by Program - Parkville



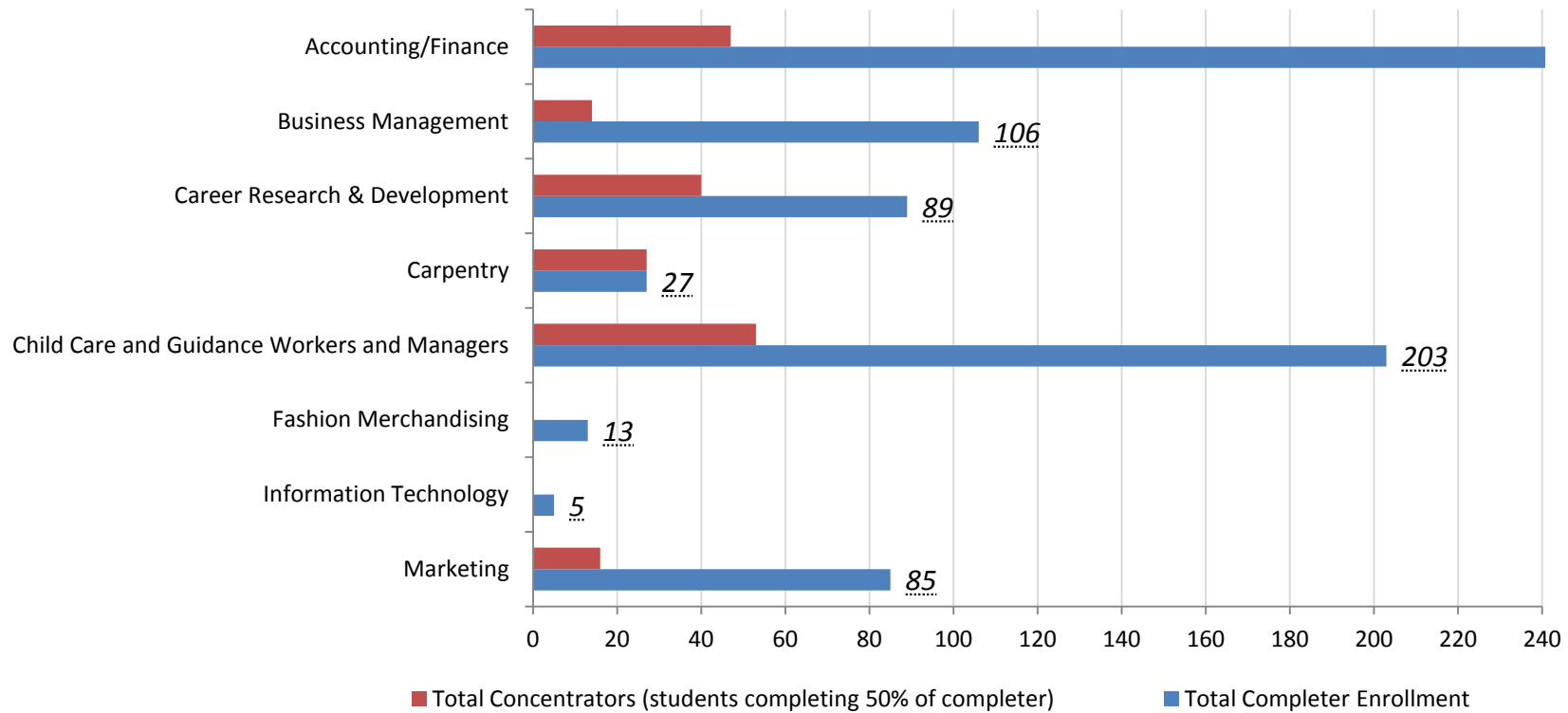
SCHOOL	CIP #	CIP Program Name	# IN CIP	= CONCENTRATORS
Parkville	1550000	Project Lead The Way	237	31
Parkville	5214514	Marketing	60	8
Parkville	1001500	Interactive Media Production	56	28
Parkville	1101030	Information Technology	57	11
Parkville	5131040	Food Science Nutrition Associate	131	12
Parkville	1109500	Cisco Networking Academy	69	6
Parkville	2002014	Child Care and Guidance Workers ar	228	43
Parkville	8600000	Career Research & Development	70	30
Parkville	5202514	Business Management	41	0
Parkville	5204514	Administrative Services	41	0
Parkville	5203544	Accounting/Finance	153	26
Parkville	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	1143	195

2011 Completer Enrollment by Program - Patapsco



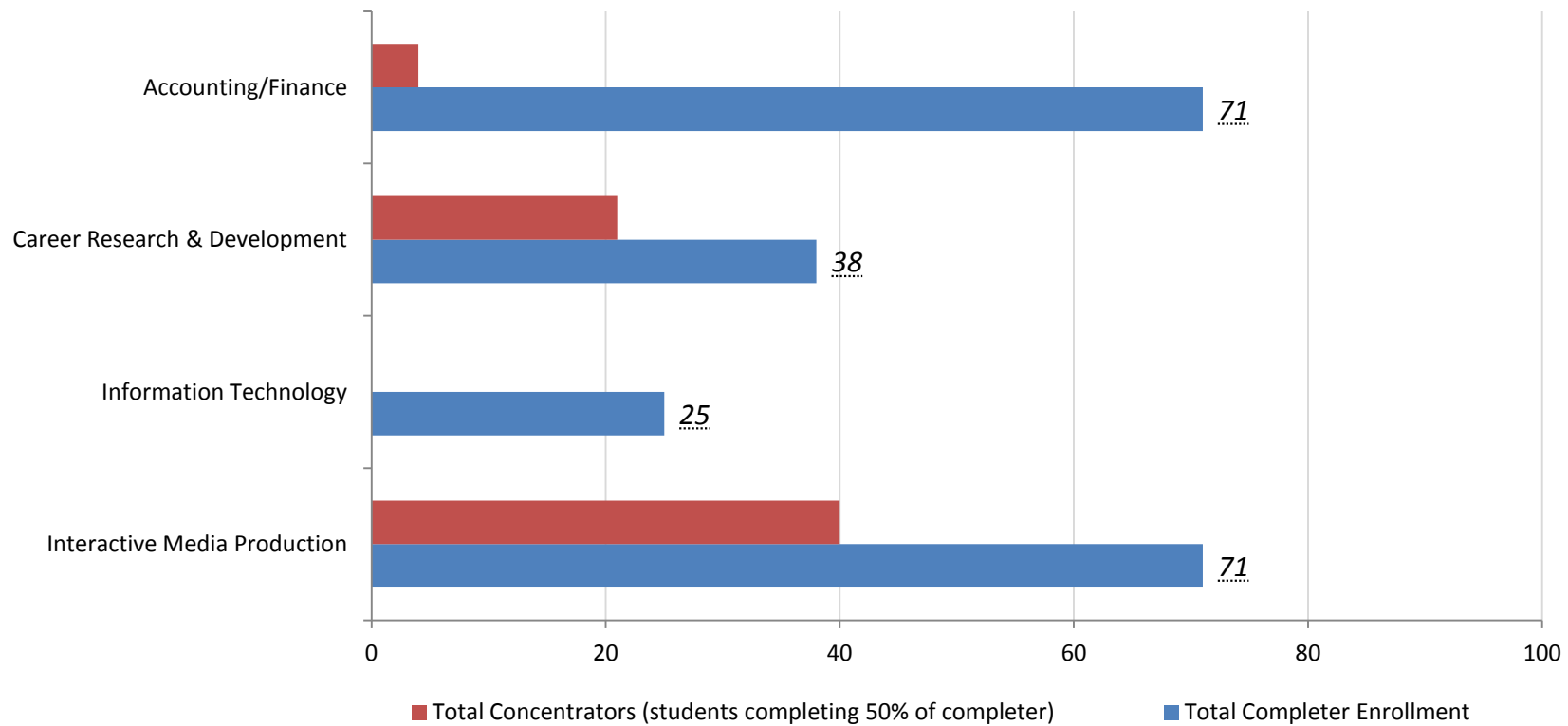
SCHOOL	CIP #	CIP Program Name	# IN CIP	CONCENTRATORS
Patapsco	5214514	Marketing	70	11
Patapsco	4301991	Criminal Justice and Corrections, Otl	91	29
Patapsco	2002014	Child Care and Guidance Workers ar	236	113
Patapsco	8600000	Career Research & Development	5	5
Patapsco	5202514	Business Management	84	25
Patapsco	5203544	Accounting/Finance	133	46
Patapsco	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	619	229

2011 Completer Enrollment by Program - Perry Hall



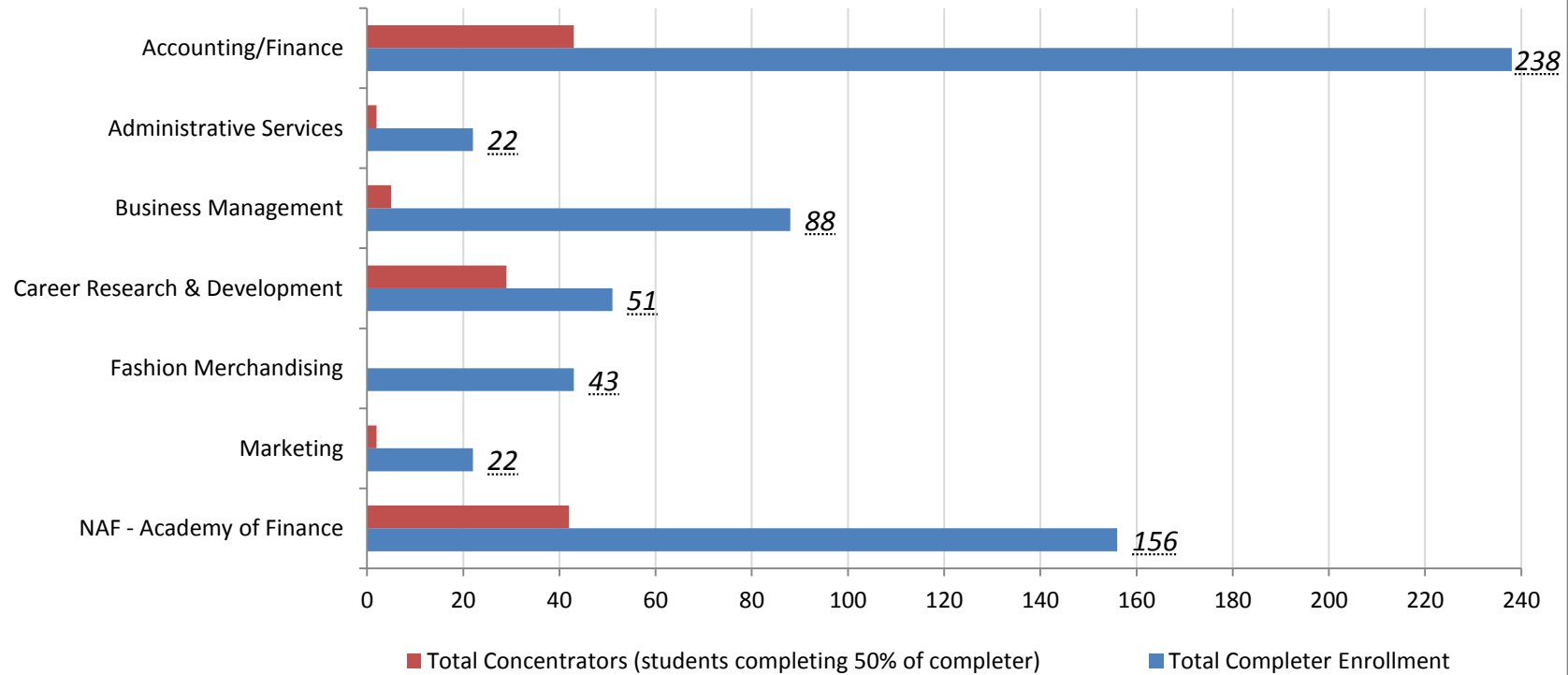
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Perry High	5214514	Marketing	85	16
Perry High	1101030	Information Technology	5	0
Perry High	801024	Fashion Merchandising	13	0
Perry High	2002014	Child Care and Guidance Workers ar	203	53
Perry High	4602014	Carpentry	27	27
Perry High	8600000	Career Research & Development	89	40
Perry High	5202514	Business Management	106	14
Perry High	5203544	Accounting/Finance	248	47
Perry High	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	776	197

2011 Completer Enrollment by Program - Pikesville



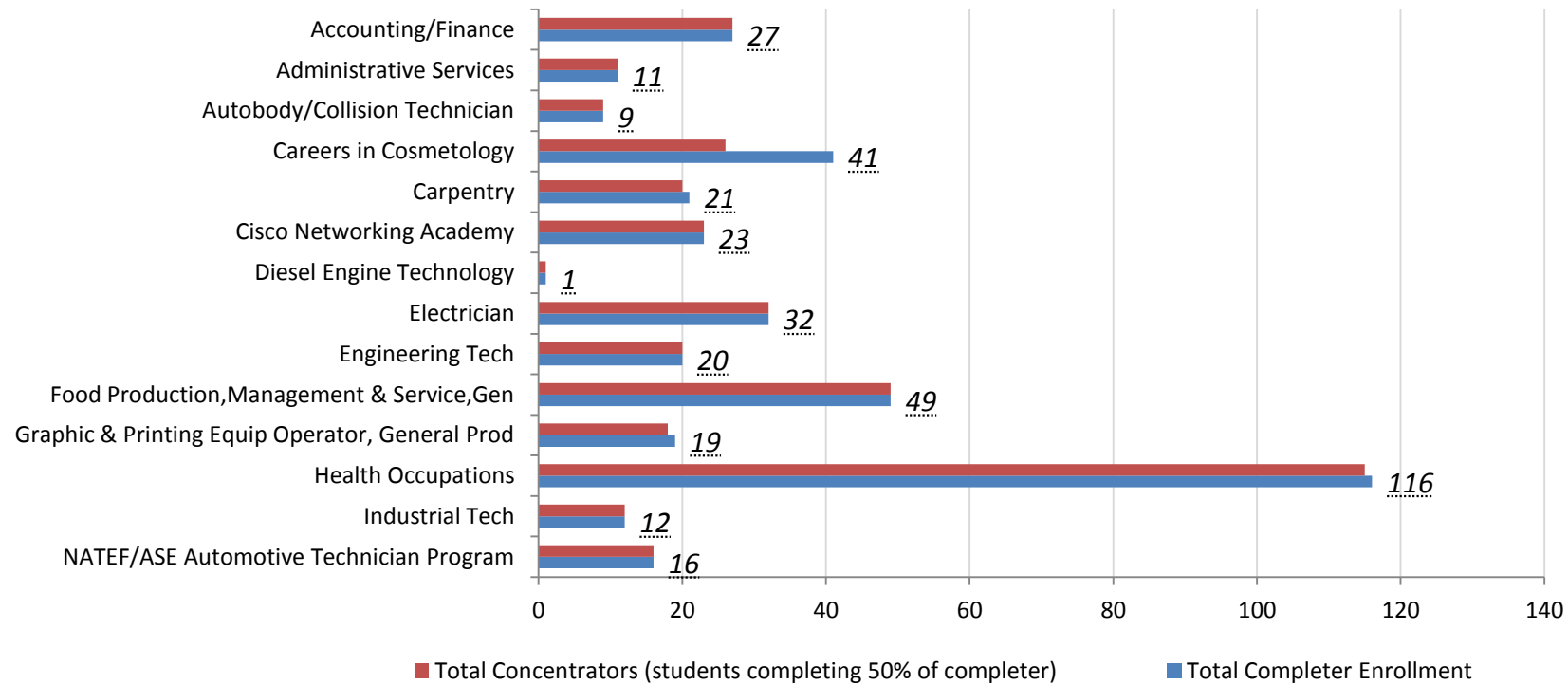
SCHOOL	CIP #	CIP Program Name	# IN CIP	# CONCENTRATORS
Pikesville	1001500	Interactive Media Production	71	40
Pikesville	1101030	Information Technology	25	0
Pikesville	8600000	Career Research & Development	38	21
Pikesville	5203544	Accounting/Finance	71	4
Pikesville	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	205	65

2011 Completer Enrollment by Program - Randallstown



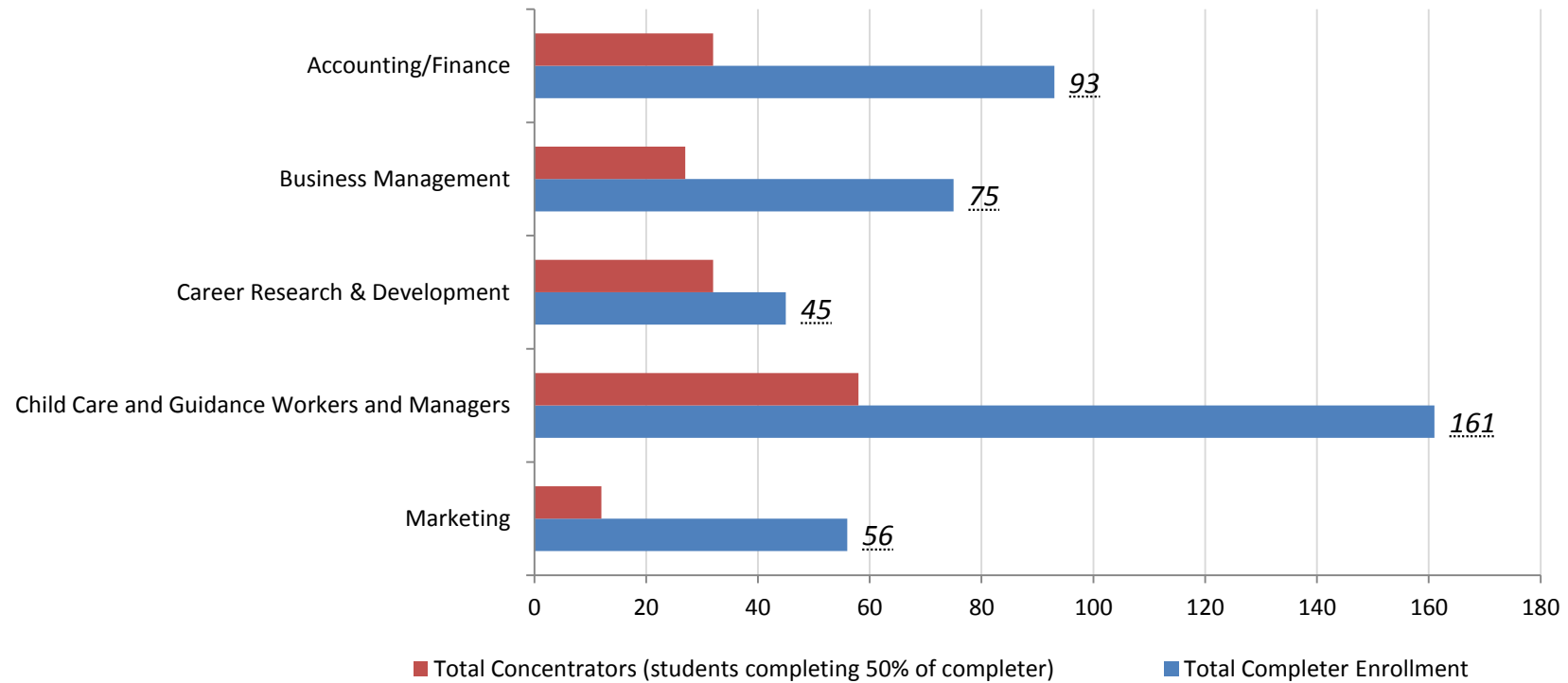
SCHOOL	CIP #	CIP Program Name	# IN CIP	CONCENTRATORS
Randallstown	5208504	NAF - Academy of Finance	156	42
Randallstown	5214514	Marketing	22	2
Randallstown	801024	Fashion Merchandising	43	0
Randallstown	8600000	Career Research & Development	51	29
Randallstown	5202514	Business Management	88	5
Randallstown	5204514	Administrative Services	22	2
Randallstown	5203544	Accounting/Finance	238	43
Randallstown	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	620	123

2011 Completer Enrollment by Program - Sollers Point



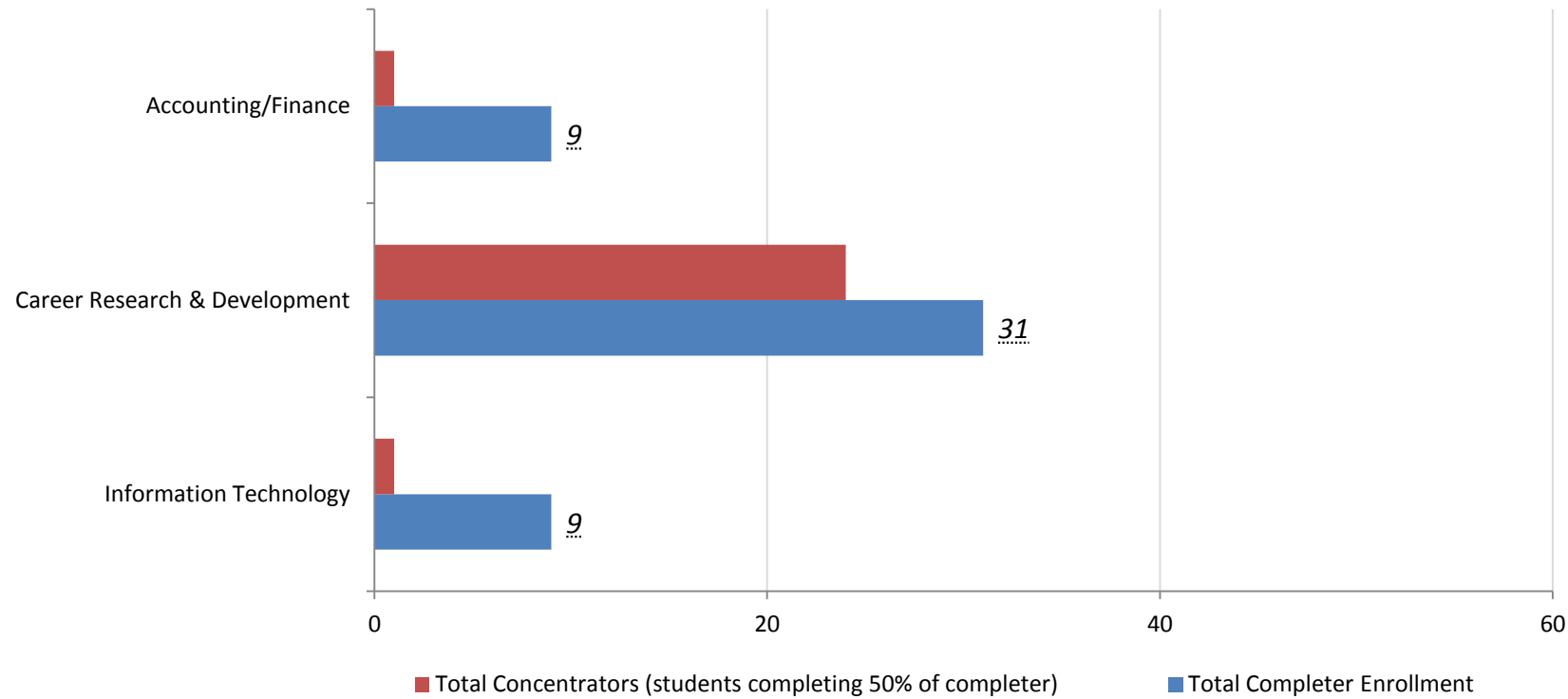
SCHOOL	CIP #	CIP Program Name	# IN CIP	CONCENTRATORS
Sollers Pt	4706450	NATEF/ASE Automotive Technician I	16	16
Sollers Pt	4805034	Industrial Tech	12	12
Sollers Pt	5199991	Health Occupations	116	115
Sollers Pt	1003500	Graphic & Printing Equip Operator, (19	18
Sollers Pt	2004014	Food Production, Management & Se	49	49
Sollers Pt	1417014	Engineering Tech	20	20
Sollers Pt	4603024	Electrician	32	32
Sollers Pt	4706550	Diesel Engine Technology	1	1
Sollers Pt	1109500	Cisco Networking Academy	23	23
Sollers Pt	4602014	Carpentry	21	20
Sollers Pt	1204500	Careers in Cosmetology	41	26
Sollers Pt	4706350	Autobody/Collision Technician	9	9
Sollers Pt	5204514	Administrative Services	11	11
Sollers Pt	5203544	Accounting/Finance	27	27
Sollers Pt	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	397	379

2011 Completer Enrollment by Program - Sparrows Point



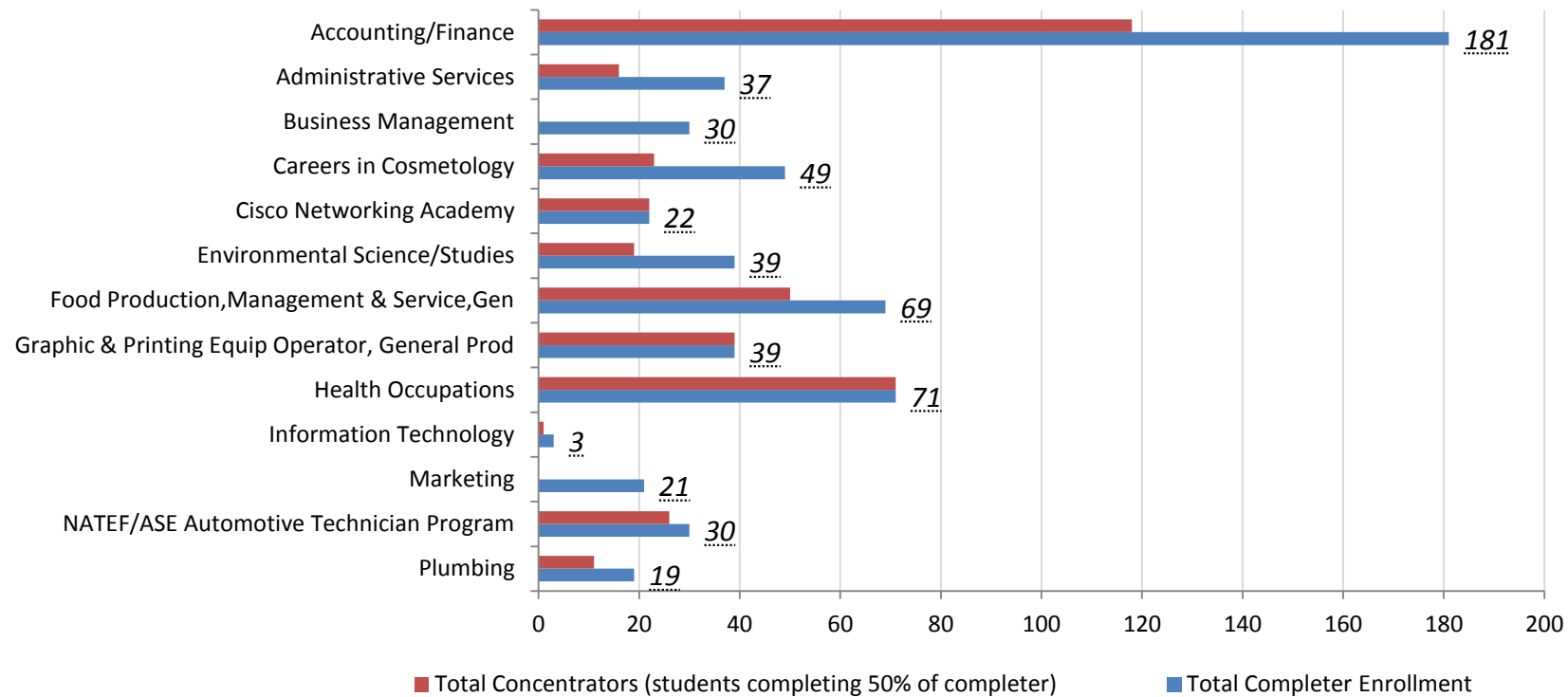
SCHOOL	CIP #	CIP Program Name	# IN CIP	= CONCENTRATORS
Sparrows Pt	5214514	Marketing	56	12
Sparrows Pt	2002014	Child Care and Guidance Workers ar	161	58
Sparrows Pt	8600000	Career Research & Development	45	32
Sparrows Pt	5202514	Business Management	75	27
Sparrows Pt	5203544	Accounting/Finance	93	32
Sparrows Pt	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	430	161

2011 Completer Enrollment by Program - Towson



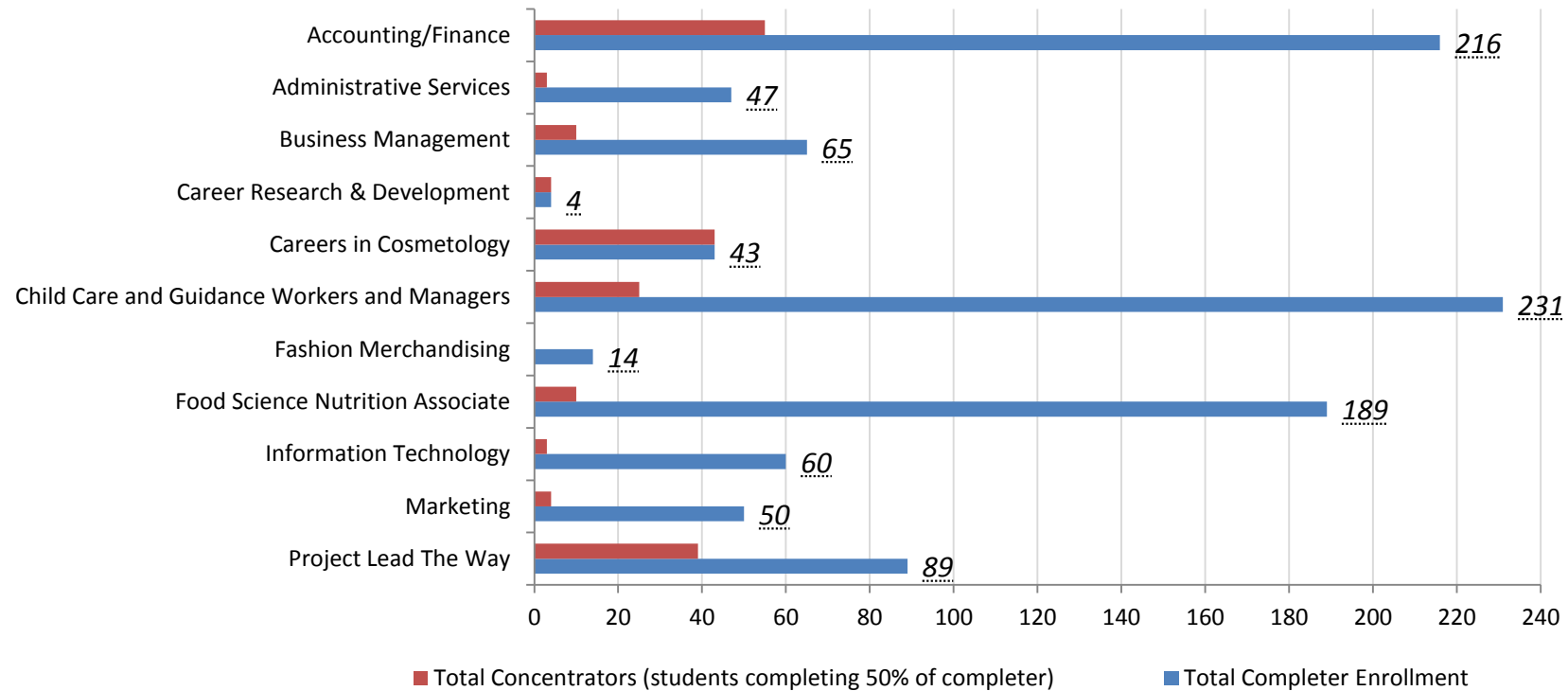
SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Towson	1101030	Information Technology	9	1
Towson	8600000	Career Research & Development	31	24
Towson	5203544	Accounting/Finance	9	1
Towson	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	49	26

2011 Completer Enrollment by Program - Western



SCHOOL	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Western School	4605014	Plumbing	19	11
Western School	4706450	NATEF/ASE Automotive Technician I	30	26
Western School	5214514	Marketing	21	0
Western School	1101030	Information Technology	3	1
Western School	5199991	Health Occupations	71	71
Western School	1003500	Graphic & Printing Equip Operator, (39	39
Western School	2004014	Food Production, Management & Se	69	50
Western School	301024	Environmental Science/Studies	39	19
Western School	1109500	Cisco Networking Academy	22	22
Western School	1204500	Careers in Cosmetology	49	23
Western School	5202514	Business Management	30	0
Western School	5204514	Administrative Services	37	16
Western School	5203544	Accounting/Finance	181	118
Western School	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	610	396

2011 Completer Enrollment by Program - Woodlawn



y	CIP #	CIP Program Name	# IN CIP	% CONCENTRATORS
Woodlawn High	1550000	Project Lead The Way	89	39
Woodlawn High	5214514	Marketing	50	4
Woodlawn High	1101030	Information Technology	60	3
Woodlawn High	5131040	Food Science Nutrition Associate	189	10
Woodlawn High	801024	Fashion Merchandising	14	0
Woodlawn High	2002014	Child Care and Guidance Workers ar	231	25
Woodlawn High	1204014	Careers in Cosmetology	43	43
Woodlawn High	8600000	Career Research & Development	4	4
Woodlawn High	5202514	Business Management	65	10
Woodlawn High	5204514	Administrative Services	47	3
Woodlawn High	5203544	Accounting/Finance	216	55
Woodlawn High	ALL CIP #	TOTAL COUNTS FOR SCHOOL:	1008	196



Career & Technology Education (CTE)

**Baltimore County Public
Schools**

April 17, 2012



Objectives:



- Describe Career & Technology Education (CTE).
- Identify CTE's alignment with college and workforce readiness.
- Outline challenges and successes with CTE.



What is CTE?





What are the CTE requirements?

- Available in **all** high schools
 - All CTE programs require that students take:
 - All core academic subject requirements and elective courses.
 - A minimum of 4 credits.
 - Elective courses in business education, family and consumer sciences, and technology education.

What makes CTE unique?



- **Value Added Approach**
 - Industry curricula and certification standards
 - Application and integration of academic skills
 - Co-curricular student organizations
 - Program advisory councils
 - Alignment to academic and technical skills
 - Work-based learning opportunities
- **Certificates and Licenses**

Alignment with College and Workforce Readiness



- **Academic Achievement and Economic Development**
 - Students are prepared with the knowledge and skills needed to enter employment and post-secondary education successfully.
 - Students are enrolled in honors and gifted and talented (GT) level courses for students in CTE programs of study.
 - Students are prepared to meet workforce development and economic development needs in a global society.

Alignment with College and Workforce Readiness



- **21st century emerging CTE programs of study**
 - Project Lead the Way Engineering
 - Teacher Academy of Maryland
 - Homeland Security and Emergency Preparedness
 - Project Lead the Way Biomedical Sciences
 - Cyber Security

BCPS PLTW Engineering Schools



	Southwest Area	Northwest Area	Central Area	Northeast Area	Southeast Area
High School	Woodlawn High	Pikesville High	Dulaney High	Parkville High	Chesapeake High
Middle School	Southwest Academy	Pikesville Middle	Ridgely Middle	Parkville Middle	Deep Creek Middle
Middle School	Woodlawn Middle			Pine Grove Middle	

Our Challenges



- Improving academic achievement overall for CTE students.
- Ensuring students' completion of all required credits for CTE programs of study.
- Counting CTE students as dual completers when they complete the University System of Maryland requirements as well as the CTE program of study requirements.



Our Successes

- Our students
- Our business partners
- Our higher education connections





- Continue to grow the program by:
 - Increasing partnerships.
 - Providing meaningful and relevant professional development.
 - Expanding programs throughout the county.



Mr. Buddy Parker
Western School of Technology