LCCC Program Analysis System

AN OVERVIEW

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Measures

The Program Analysis and Ranking System is designed to measure the relative performance of LCCC's programs of study. Twenty-five measures in four key performance areas have been identified for programs of study. Most of these measures can be linked to the College's KPI (Key Performance Indicator) system; these linkages are included in the table below. At this time, data are not yet available for many of the indicators, which are high-lighted in gray.

Performance Area and Measures	Definition
A. Participation	
A.1 Annual FTE (KPI A.1.a)	Total FTE enrollment in all course sections corresponding to the program analysis group
A.2 Number of participants enrolled (KPI A.1.b)	Unduplicated annual count of individuals enrolled in the program analysis group.
A.3 Number of declared majors (KPI C.1.a, D.1.a)	Unduplicated headcount of students who had a declared program of study from the program analysis group
B. Success	
B.1 Course success rate (KPI A.7)	Course success rate for all course enrollments for the academic year. Success rate = (number of A, B, C, and S grades)/(total number of official student enrollments)
B.2 Graduation rate (KPI A.4)	Students who declare a program of study in the program analysis group during the first half of a fiscal year (July 1 – December 31) are tracked for three academic years, through August 31 of the third year, to determine who completes their programs of study. (For example, the fall 2011 majors were tracked through 8/31/2014.) The graduation rate = (# completers)/(# declared majors). Exclusions: Students who have not completed any credits within the program analysis group by the end of the tracking period are excluded from the analysis.
B.3 Number of degrees and certificates awarded (KPI C.2.a, D.2.a)	Total number of degrees and certificates awarded in the academic year (summer, fall, spring for these reporting purposes).
B.4 Number of majors matriculating to university (KPI C.3)	The cohort of students identified for measure B.2 is tracked for three years, through the summer semester, to determine who transfers to a four-year college or university in that time frame. (For example, the fall 2011 majors were tracked through the summer 2014 semester.) Generally applicable only to transfer (AA or AS) programs.
B.5 University matriculation rate (KPI C.3)	Matriculation rate = (# majors who transfer within two year [B.4])/(#fall majors). Generally applicable only to transfer (AA or AS) programs.

Performance Area and Measures	Definition
B.6 Number of in-field job placements (KPI D.3)	Number of fall concentrators in CTE programs who are employed in positions related to their programs six months after completing their program or stopping enrollment at LCCC. This measure is not yet included in the scoring due to a lack of reliable data at this time. Currently the only source of data is the survey of graduates conducted six months after graduation. Response rates are low so there is not enough information to disaggregate responders into their program groups.
B.7 In-field job placement rate (KPI D.3)	Placement rate = (result for B.6)/(# CTE concentrators in Fall Cohort) This measure is not yet included in the scoring due to a lack of reliable data at this time. Currently the only source of data is the survey of graduates conducted six months after graduation. Response rates are low so there is not enough information to disaggregate responders into their program groups.
B.8 Licensure/certification pass rate (KPI D.5)	Pass rate = (number of program graduates who successfully complete the licensure/certification exam related to their program of study on the first attempt)/(number attempting the exam). For programs where the graduates complete more than one exam, results are aggregated for that program. Currently, this indicator is limited to health science programs. Licensure/certification results have not been systematically collected for other areas.
B.9 Achievement of program competencies (KPI A.5)	Results of student learning assessment of program competencies are not available for institutional analysis at this time.
B.10 Achievement of institutional competencies (KPI A.5)	Preliminary results of student learning assessment of institutional competencies are being analyzed to determine the best practice for data presentation for continuous improvement and accountability.
C. Learning Environment	
C.1 Percent of sections taught by full-time faculty (KPI F.3.a)	Percent of sections taught by full-time faculty = (number of program group sections taught by full-time faculty in an academic year)/(number of program group sections taught in the same year)
C.2 FTE student to FTE faculty ratio (KPI F.2)	FTE faculty = (total credits taught in program group sections for the academic year)/15 FTE student to FTE faculty ratio = (total FTE enrollment in program group sections for an academic year [A.1])/(FTE faculty)
C.3-7 CCSSE benchmark ratings (KPI I.2.a – KPI I.2.e)	Trend data are being developed and faculty input is being sought during the 2015-16 academic year to determine the best practice for incorporating these data in the annual program analysis.
D. Efficiency	

Performance Area and Measures	Definition
D.1 Average credits to completion (KPI F.1.a)	For each graduate, determine the total number of completed at the time of graduation. Calculate the average for each program group.
D.2 Average time to completion (KPI F.1.b)	For each graduate, determine the total time in years from initial enrollment until the time of graduation. Calculate the average for each program group.
D.3 Average section fill rate (KPI F.4)	Fill rate = (official [12% census date] enrollment)/(section capacity). The fill rate is calculated for every section taught during the academic year and the averaged for each program group.
D.4 Core expenditures per FTE (KPI G.1)	Instructional expenditures are summed across the budget lines related to the program group. (See Appendix III.) That sum is then divided by the total FTE as calculated for A.1. • Some cost centers are related to more than one program group. In those cases, expenditures are prorated based on FTE.

Methodology and Assumptions

For this analysis, programs and concentrations are grouped using the current LCCC Catalog and Classification of Instructional Program (CIP) codes extracted from the Colleague database. See Appendix I for the current list of Program Analysis Groupings. Once the program analysis groupings are identified, courses are associated with programs using a similar methodology. (See Appendix II.) Only college-level courses are used for this analysis.

For each measure listed above, two statistics are included: the result for the most recent academic year and the average of the results for three most recent years. For each statistic, all program results will be grouped into quintiles and programs were assigned a score from 1 to 5, with 5 representing a score above the 80th percentile. Then the sum of the scores is calculated across all measures.

As noted in the table above, some measures are applicable only to transfer programs (AA and AS degree programs) while others are applicable only to career/technical programs (AAS and certificate programs). To adjust for this, the percent of total possible scores is calculated for each program of study. Finally, programs are ranked and divided into five quintiles based on these percentages.

Appendices

Appendix I: Program Analysis Groupings

Program Analysis Groupings	Award	Catalog Program/Program Concentration Title	CIP
Notes: (1) Green shading indicates programs scheduled for program review during 2015-2016. (2) Blue shading indicates programs that have been discontinued as of July 1, 2015. They are included in Program Analysis Groupings for historical trends. (3) Gray shading indicates programs that were first offered in 2015-2016 and have been excluded from the most recent analysis. (4) The Technical Studies program (teal shading) was excluded from the most recent analysis since most measures as defined above are not applicable to this program.			
Accounting	AAS	Accounting	52.0301
Accounting	AS	Accounting	52.0301
Agriculture	AAS	Agribusiness Technology	01.0106
Agriculture	AAS	Agriculture Production Technology	01.0301
Agriculture	AS	Agriculture	01.0000
Agriculture	AS	Agriculture -- Agriculture Business Concentration	01.0101
Agriculture	AS	Agriculture -- Animal Science Concentration	01.0901
Anthropology	AA	Anthropology	45.0201
Art	AA	Art	50.0701
Automotive Body Repair	AAS	Automotive Body Repair	47.0603
Automotive Body Repair	CCD	Automotive Body Repair	47.0603
Automotive Technology	AAS	Automotive Technology	47.0604
Automotive Technology	CCD	Automotive Technology	47.0604
Business and Finance	AS	Business Administration	52.0201
Business and Finance	AS	Economics and Finance	45.0601
Business and Finance	AS	Business and Finance	52.0201
Business Management	AAS	Business Management	52.0201
Business Management	CCD	Entrepreneurship Certificate	52.0701
Business Management	CCD	Entrepreneurship Business Plan Certificate	52.0701
Business Management	CD	Business Management -- Entrepreneurship	52.0701
Computer Information Systems	AAS	Computer Information Systems	11.0201
Computer Information Systems	CCD	CIS -- Cisco Certified Networking Associate (CCNA)	11.0501
Computer Information Systems	CCD	CIS -- Computer Support Specialist	52.0411
Computer Information Systems	CCD	CIS -- Computer Technician	47.0104
Computer Information Systems	CCD	CIS -- Microsoft Systems and Networks	11.0203
Computer Information Systems	CCD	CIS -- Office Application Specialist	11.9999
Computer Information Systems	CCD	CIS -- Web Design	11.0801
Computer Information Systems	CCD	CIS -- Cisco Certified Networking Professional (CCNP)	11.0501
Computer Information Systems	CCD	CIS -- Linux Systems	11.1001
Computer Information Systems	CCD	CIS -- Programmer	11.0201

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Computer Information Systems	CD	CIS -- Cisco Certified Networking Associate (CCNA)	11.0501
Computer Information Systems	CD	CIS -- Computer Support Specialist	52.0411
Computer Information Systems	CD	CIS -- Computer Technician	47.0104
Computer Information Systems	CD	CIS -- Microsoft Systems and Networks	11.0203
Computer Information Systems	CD	CIS -- Office Application Specialist	11.9999
Computer Information Systems	CD	CIS -- Web Design	11.0801
Computer Science	AS	Computer Science	11.0701
Computer Science	AS	Computer Science -- Computers and Business Option	11.0101
Computer Science	AS	Computer Science – Business Concentration	11.0101
Construction Management	AAS	Construction Management	52.2001
Criminal Justice	AA	Criminal Justice -- Law Enforcement	43.0103
Criminal Justice	AA	Criminal Justice -- Corrections	43.0102
Criminal Justice	AA	Criminal Justice -- Prelaw	22.0001
Criminal Justice	AA	Criminal Justice – Corrections/Pre-Law	43.0199
Cybersecurity	AAS	Cybersecurity	11.1003
Cybersecurity	CCD	CIS -- Computer Security	11.0201
Cybersecurity	CD	Cybersecurity Fundamentals	11.1003
Cybersecurity	CD	Cybersecurity Professional	11.1003
Dental Hygiene	AAS	Dental Hygiene	51.0602
Diagnostic Medical Sonography	AAS	Diagnostic Medical Sonography	51.0910
Diesel Technology	AAS	Diesel Technology	47.0605
Diesel Technology	CCD	Diesel Technology	47.0605
Diesel Technology	CD	Diesel Technology	47.0605
Education	AA	Education	13.0101
Education	AA	Education -- Early Childhood Education	13.1210
Education	AAS	Education -- Early Childhood Education	13.1210
Emergency Medical Services—Paramedics	AAS	Emergency Medical Services—Paramedics	51.0904
Emergency Medical Services—Paramedics	CCD	Emergency Medical Services—Paramedics	51.0904
Emergency Medical Services—Paramedics	CD	Emergency Medical Services—Paramedics	51.0904
Engineering	AS	Engineering	14.0101
Engineering Technology	AAS	Engineering Technology -- Drafting and Design Concentration	15.1301
Engineering Technology	CCD	Engineering Technology	15.1301
Engineering Technology	CD	Engineering Technology	15.1301

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English	AA	English	23.0101
Equine Science	AAS	Equine Training Management Option	01.0507
Equine Science	AS	Equine Science Option	01.0507
Equine Science	AS	Equine Business Management Option	01.0507
Exercise Science	AS	Exercise Science	31.0505
Exercise Science	AS	Exercise Science -- Physical Education	13.1314
Exercise Science	AS	Exercise Science -- Physical Education Teacher Concentration	31.0507
Fire Science Technology	AAS	Fire Science Technology	43.0203
Fire Science Technology	AS	Fire Science Technology	43.0203
Fire Science Technology	CCD	Fire Science Technology	43.0203
Government Studies	AA	Government Studies	45.1001
Government Studies	AA	Government Studies -- Public Policy and Administration	44.0401
Health Information Technology	AAS	Health Information Technology and Management	51.0713
Health Information Technology	CCD	HIT -- Medical Office Essentials Certificate	51.0713
Health Information Technology	CCD	HIT -- Medical Claims Coding Associate Certificate	51.0713
Health Information Technology	CD	HIT -- Medical Office Essentials	51.0713
Health Information Technology	CRED	HIT -- Medical Claims Coding Associate	51.0713
Health Science	AS	General Studies in Science/Health Science	30.0101
Health Science	AS	Biology -- Preprofessional Option: Prepharmacy	51.1103
Health Science	AS	Health Science	51.0001
Heating, Ventilation, and Air Conditioning/Refrigeration	AAS	Heating, Ventilation, and Air Conditioning/Refrigeration	47.0201
Heating, Ventilation, and Air Conditioning/Refrigeration	CCD	HVAC/R – Advanced Technician Certificate	47.0201
Heating, Ventilation, and Air Conditioning/Refrigeration	CCD	HVAC/R – Basic Technician Certificate	47.0201
Heating, Ventilation, and Air Conditioning/Refrigeration	CD	HVAC/R – Advanced Technician Certificate	47.0201
Heating, Ventilation, and Air Conditioning/Refrigeration	CD	HVAC/R – Basic Technician Certificate	47.0201
History	AA	History	54.0101
History	AA	History -- Religious Studies Option	38.0201
Homeland Security	AS	Homeland Security	43.9999
Homeland Security	CCD	Homeland Security	43.9999
Homeland Security	CD	Homeland Security	43.9999
Human Services	AA	Human Services	44.0000
Human Services	AA	Human Services -- Addictionology Option	51.1501
Industrial Maintenance	CCD	Integrated Systems Technology	47.9999

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Industrial Maintenance	CD	Industrial Maintenance	47.0303
Interdisciplinary Liberal Arts	AA	General Studies in Fine Arts and Humanities	24.0103
Interdisciplinary Liberal Arts	AA	Interdisciplinary Liberal Arts	24.0199
Mass Media	AA	Mass Media	09.0102
Mass Media	AA	Mass Media -- Multimedia Option	09.0702
Mathematics	AA	Mathematics	27.0101
Mathematics	AS	Mathematics	27.0101
Music	AA	Music	50.0901
Natural Science	AS	Biology	26.0101
Natural Science	AS	Chemistry	40.0501
Natural Science	AS	Wildlife Conservation and Management	03.0601
Natural Science	AS	Natural Science – Biology Concentration	30.1801
Natural Science	AS	Natural Science – Chemistry (BA Track) Concentration	30.1801
Natural Science	AS	Natural Science – Chemistry (BS Track) Concentration	30.1801
Natural Science	AS	Natural Science – Human Biology Concentration	30.1801
Natural Science	AS	Natural Science – Molecular Biology Concentration	30.1801
Natural Science	AS	Natural Science – Physiology Concentration	30.1801
Natural Science	AS	Natural Science – Wildlife Biology Concentration	30.1801
Natural Science	AS	Natural Science – Zoology Concentration	30.1801
Nursing	AAS	Nursing	51.3801
Nursing	CCD	Nursing	51.3801
Paralegal	AAS	Paralegal	22.0302
Paralegal	CCD	Paralegal	22.0302
Physical Therapist Assistant	AAS	Physical Therapist Assistant	51.0806
Process Technology	CCD	Process Technology	41.0303
Process Technology	CD	Process Technology	41.0303
Psychology	AA	Psychology	42.0101
Psychology	AA	Psychology – Social Work Concentration	44.0799
Psychology	AS	Psychology	42.0101
Radiography (X-ray)	AAS	Radiography (X-ray)	51.0911
Social Sciences	AA	General Studies in Social Sciences	45.0101
Social Sciences	AA	Social Sciences	45.0101
Spanish	AA	Spanish	16.0905
Spanish	AA	Spanish – Education Concentration	13.1330
Spanish	AA	Spanish – Liberal Arts Concentration	16.0905
Surgical Technology	AAS	Surgical Technology	51.0909
Technical Studies	AAS	Technical Studies	47.9999
Welding	AAS	Welding Technology	48.0508
Welding	CCD	Welding Technology	48.0508
Welding	CD	Welding Technology – Advanced Pipe Welding	48.0508
Welding	CD	Welding Technology – Combination Welding	48.0508
Wind Energy	AAS	Wind Energy	15.0503

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Wind Energy	AS	Wind Energy	15.0503
Wind Energy	CCD	Basic Wind Technician	15.0503

Appendix II: Program Analysis Groupings and Associated Courses

Program Analysis Grouping	Course Prefixes
Accounting	ACCT
Agriculture	AECL, AGEC, AGRI, ANSC, RGMG
Anthropology	ANTH
Art	ART
Automotive Body Repair	AUBR
Automotive Technology	AUTO
Business and Finance	BADM, BUSN, DSCI, MKT, IMGT, ECON, FIN
Business Management	ENTR, MGT
Computer Information Systems	CMAP, CSCO, INET, LINX, MSFT
Computer Science	COSC
Construction Management (begun 2015)	CMGT
Criminal Justice	CRMJ
Cybersecurity	CSEC
Dental Hygiene	DHYG
Diagnostic Medical Sonography	IMAG
Diesel Technology	DESL
Education	EDCI, EDEC, EDEL, EDEX, EDFD, EDST, EDUC, FCSC, ITEC, LIBS
Emergency Medical Services - Paramedic	EMGT, EMT
Engineering	ES
Engineering Technology	ENTK
English	ENGL
Equine Science	EQST
Exercise Science	HLED, PEAC, PEPR, KIN
Fire Science Technology	FIRE
Government Studies	POLS
Health Information Technology	HIT, MEDC
Health Science	HLTK, HOEC
Heating, Ventilation and Air Conditioning/Refrigeration	HVAC
History	HIST, RELI
Homeland Security	HSEC
Human Services	ADDN, CNSL, HMSV, SOWK
Industrial Maintenance (begun 2015)	IST
Interdisciplinary Liberal Arts	FREN, GERM, HUMN, JAPN, LATN, PHIL, PORT, SPPA, THEA
Mass Media	MMMM
Mathematics	MATH, STAT
Music	MUSC
Natural Science	BIOL, CHEM, MICR, MOLB, ZOO
Nursing	NRST
Paralegal	LEGL
Physical Therapist Assistant	PTAT
Process Technology	PTEC
Psychology	PSYC
Radiography	RDTK

Program Analysis Grouping	Course Prefixes
Social Sciences	AMST, SOC
Spanish	SPAN
Surgical Technology	SURG
Welding Technology	WELD
Wind Energy	WTT

Appendix III: Program Analysis Groupings and Associated Budget Cost Centers

Program Analysis Grouping	Budget Function Code	Budget Cost Center Description
Notes: (1) Blue shading indicates budget cost centers that include expenditures for two program areas. The programs' FTE is used to determine the proportion of the expenditures that is allocated to each program. (2) Expenditures for English and Mathematics (green shading) have been prorated using FTE to exclude expenditures related to developmental sections, which are not included in the annual program analysis.		
Accounting	110504	Accounting
Agriculture	120575	Agriculture
Anthropology/Social Sciences	110405	Soc./Anthro.
Art	110104	Art
Automotive Body Repair	120507	Auto Body
Automotive Technology	120508	Auto Tech
Business and Finance	110502	Business
Business and Finance	110503	Economics
Business Management	120505	Bus. Mgmt.
Business Management	120569	Entrepreneurship Ed.
Computer Information Systems	120546	CISCO Tech.
Computer Information Systems	120503	Comp. Info. Sys.
Computer Information Systems	120547	Comp. Support Spec.
Computer Information Systems	120539	Internet Tech.
Computer Information Systems	120518	Microsoft Net Tech
Computer Science	110505	Comp. Sci.
Criminal Justice	110408	Crim. Justice
Dental Hygiene	120305	Dental Hygiene
Diagnostic Medical Sonography	120311	Sonography
Diesel Technology	120509	Diesel Tech
Education	110114	Education
Education	110409	Education
Emergency Medical Services—Paramedics	120317	EMT
Emergency Medical Services—Paramedics	120312	Paramedic
Engineering Science	110416	Eng./Physics
Engineering Technology	120506	Engineering Tech
English	110102	English
Equine Science	120576	Equine Studies
Exercise Science	110311	P.E.
Fire Science Technology	120357	Fire Science
Fire Science Technology	120402	Fire Science
Government Studies	110404	Pol. Sci.
Health Information Technology	120310	Health Info.
Health Information Technology	120356	Health Information Tech
Heating, Ventilation, and Air Conditioning/Refrigeration	120581	HVAC Tech
Heating, Ventilation, and Air Conditioning/Refrigeration	120720	HVAC Tech
History	110406	History
Homeland Security	120578	Homeland Security
Homeland Security	120410	Homeland Security
Human Services	110420	Human Services

Program Analysis Grouping	Budget Function Code	Budget Cost Center Description
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Integrated Systems Technology	120706	IST Program
Interdisciplinary Liberal Arts	110106	Humanities
Interdisciplinary Liberal Arts	110107	Philosophy
Interdisciplinary Liberal Arts	110108	Theater
Mass Media	110111	Mass Med./Multimed.
Mathematics	110411	Math
Music	110109	Choral Music
Music	110112	Instrumental Music
Natural Science	110414	Biology
Natural Science	110415	Chemistry
Natural Science	110417	Microbio.
Natural Science	110418	Zoology
Nursing	120302	Nursing
Paralegal	120404	Paralegal
Physical Therapist Assistant	120319	Phys. Therapy Ass.
Process Technology	120582	Process Technology
Psychology	110402	Psych.
Radiography	120304	Radiography
Social Science	110407	Geography
Spanish/Interdisciplinary Liberal Arts	110105	Languages
Surgical Technology	120313	Surgical Tech
Welding Technology	120510	Welding
Wind Energy	120580	Wind Energy Tech
Wind Energy	120719	Wind Turbine Tech