PROGRAM PRODUCTIVITY

3/20/2013

Fall 2009, Fall 2010, Fall 2011

Three year trend analysis of Technical Program Productivity and Enrollment at Bluegrass Community and Technical College

Academic Assessment
Karman K. Wheeler

Program Productivity

FALL 2009, FALL 2010, FALL 2011

INTRODUCTION

Current assessment of technical programs includes indirect and direct methods of measurement including program health review and student learning outcomes. This productivity report supplements these assessments by providing program specific trend information as each program strives to heighten effectiveness and productivity through continuous improvement strategies.

The Program Productivity Report captures enrollment (duplicated and unduplicated), Overall Percent Capacity (Enrollment divided by Capacity), Full-Time Equivalent Faculty (FTE-F), Total Enrolled Credit Hours (Enrollment multiplied by Course Credit Hours), Credit Hours Generated per FTE-F (Total Enrolled Credit Hours divided by FTE-F), and Full-Time Equivalent – Student (FTE-S) taught by FTE-F (FTE-S/FTE-E). A summary sheet of all programs by division captures the enrollment and productivity calculations within each division.

With the exception of Respiratory Care that uses spring data, the detailed program specific productivity reports list the courses used, enrollment, and productivity calculations for fall 2009, fall 2010, fall 2011. Additional information specific for each program's enrollment, calculations and data is provided below each tables and is also described below.

Based on course prefixes specific for each program, information is compiled using Decision Support System (DSS) unofficial data of course enrollments at the "BLC" Campus for fall 2009, fall 2010, and fall 2011. The Respiratory Care Program is the only exception, using spring 2010, spring 2011, and spring 2012 data.

Course sections beginning with 18 have been removed. Courses identified as clinicals and Co-Ops are listed within their specific program. The data for clinicals and Co-Ops are included in the enrollment counts (duplicated and unduplicated) but not in the productivity calculations. In addition, clinicals and Co-Ops are noted on the individual technical program detailed reports.

For the duplicated and unduplicated program enrollments, student emplids are counted for each course. All emplids are counted for each course with the specified course prefix. If a student is enrolled in more than one of the courses in a technical program, they are counted multiple times in "Duplicate" count. When duplicate emplids are removed, an "Unduplicated" count is determined for each program. (Note: Courses with "0" enrollment are not included in the enrollment and productivity studies.

DEFINITIONS

- Contact Hours – The assignment of contact hours based on the hours published in the college catalog (2009-2010, 2010-2011, and 2011-2012).

- Contact Hours Per Week – It is calculated by dividing the total contact hours assigned by the number of weeks in the semester (15).

- Credit Hours – The assignment of credit hours as designated in the college catalog for 2009-2010, 2010-2011, and 2011-2012.

- Percent Capacity – The "Percent Capacity" is based on the number of students enrolled in each course and the course capacity. It is also calculated for the entire program by dividing the sum of course enrollments by the sum of all of the course capacities.

- Faculty Workload – This is based on the percentage of hours taught by full-time faculty at the college and is not program specific. Faculty identified as "Staff" are included in the part-time category.

- Full-time faculty member – Information from the program coordinators identifies the full-time/part-time status of faculty and is based on KCTCS Policy Manual 2.1 Full-time Faculty guidelines :

  A full-time faculty member is an employee of a KCTCS college who is qualified for appointment to one (1) of the academic ranks listed in Policy Subsection 2.1.3 and ordinarily has full-time teaching duties or has other teaching related duties (e.g. research, academic administration, librarians, counselors) equivalent to a full-time teaching load and fulfills the duties and responsibilities of a faculty member.

  Staff teaching courses and all non-full time faculty are classified as part-time.

  Full-time/part-time status is not program specific. Faculty classified as full-time may be teaching classes in multiple programs.

- Total Enrolled Credit Hours – The total credit hours generated by each course and program is determined by multiplying the enrollment in each course by the credit hours for the course.

- Full-time Equivalent - Faculty (FTE-F) - The use of contact or credit hours in calculating FTE-F is based on information provided by each program coordinator. If contact hours are used, the weekly contact hours are divided by the average number of contact hours defined by the program, ranging from 15-20 hours per week. When credit hours are used, the course credit hours are divided by 15 to obtain the FTE-F.

- Credit Hours Generated by FTE-F – The Total Enrolled Credit Hours are divided by the calculated FTE-F, providing the average number of credit hours generated by each FTE-F for a program.

- Program Coordinator – The program coordinator is usually a faculty member with 3 hours of release time to oversee administrative functions of the technical program. An "*" on a program's individual, detailed productivity report is used to identify the program coordinator(s) for each program.

- Ratio of FTE-S taught by FTE-F – Using the Council on Postsecondary Education's (CPE) definition of a full-time equivalent student (15 credit hours), the average number of credit hours generated by FTE-F is divided by 15 to determine the number of students taught by each FTE-F.

- Stacked classes are classes that are taught in the same classroom at the same time. One of the classes is assigned a Capacity (Cap) and the remaining courses are given a Cap of zero. Identification of The stacked classes is provided by the program coordinator.

- Staff – With the exception of Construction Technology, courses with the faculty designation of "Staff" are included in the "Part-time" faculty category for Full-time/Part-time percentage breakdowns in the Faculty Workload.

PROGRAM SPECIFIC INFORMATION

Air Conditioning Technology

Air conditioning courses are identified as courses with a prefix of ACR.

ACR 299 is identified as a Co-Op. The enrollment counts for Co-Op courses are included in the "Duplicate" and "Unduplicate" enrollment counts but not in the remaining calculations.

The FTE-F is calculated using 20 contact hours per week.

Architectural Technology

Architectural Technology courses are identified as courses with a prefix of ACH.

Duplicated enrollment from labs for ACH 100, ACH 150, ACH 195, ACH 200, ACH 250, ACH 293, and ACH 297 are removed prior to the productivity calculations.

The FTE-F is calculated using 20 contact hours per week.

Automotive Technology

Courses beginning with a prefix ADX or AUT are included in productivity measures for Automotive Technology. Sections beginning with 18 were removed prior to any counts or calculations.

When present, AUT 199 Practicum, AUT 298 Practicum, and AUT 299 Co-Op are included in duplicated and unduplicated enrollment counts but not in the remaining productivity calculations.

Due to a three semester enrollment cycle, every other year reflects two cohorts (incoming students and graduates). As a result of this cycle, alternate years should be reviewed for trend data.

The FTE-F is calculated using 20 contact hours per week.

Biotechnology Laboratory Technician

All course prefixes beginning with BT or BTN are included in the Biotechnology productivity calculations with the exception of sections beginning with 18. Class sections beginning with 18 are excluded.

Duplicated enrollment from labs for BT 110, BT 201, and BT 202 are removed prior to enrollment counts and productivity.

The FTE-F is calculated using total credit hours divided by 15.

Business Management and Marketing

Productivity and enrollment calculations include courses with a prefix of MGT, MKT, RE, and REA. Class sections beginning with 18 are removed prior to productivity studies.

The FTE-F is calculated using total credit hours divided by 15.

Collision Repair Technology

The Collision Repair Program uses course prefixes of ABR excluding any class sections starting with 18.

When present, students in ABR 198 Practicum, ABR 199 Co-0p, ABR 298 Practicum, and ABR 299 Co-Op are included in enrollment counts but not in additional productivity calculations.

Duplicated enrollments in labs for ABR 130, ABR 150, ABR 230, and ABR 250 are excluded in all calculations.

ABR 100/CRT 100 is a safety class for incoming freshmen only; but the Cap reflects all Collision Repair students.

The FTE-F is calculated using 20 contact hours per week.

Civil Engineering Technology

The course prefix CET is used for Civil Engineering calculations.

No course information is available for fall 2009.

Duplicated enrollment from labs for CET 150, CET 200 (including 15W1), CET 220, CET 260, CET 280, and CET 295 are excluded from enrollment and productivity calculations.

The FTE-F is calculated using 20 contact hours per week.

Computer Aided Drafting and Design

With the exclusion of course sections beginning with 18, course prefixes DFT and CAD are used in productivity and enrollment calculations for Computer Aided Drafting and Design.

At the Program Coordinator's request, and with the exception of "stacked classes", all caps were changed to 15. Stacked classes are classes taught at the same time. The Program Coordinator identified the courses to receive zero caps. DFT 152/DFT 252 and DFT 191/DFT 292/DFT 293 are stacked classes. The Cap for DFT 252, DFT 291 and DFT 293 have been changed to 0.

DFT 212 is an independent study; therefore the Cap has been changed to 0 per the Program Coordinator's request.

Duplicated enrollment from labs are excluded for DFT 102, DFT 112, DFT 122, DFT 130, DFT 152, DFT 212, DFT 22, DFT 240, DFT 250, DFT 252, DFT 292, CAD 100, CAD 102, CAD 212, CAD 220, CAD 222, CAD 230, CAD 240, CAD 252, Cad 262, CAD 292, CAD 1001, CAD 1002, CAD 1003, and CAD 1004.

CAD 298 Practicum, CAD 299 Co-0p, DFT 298 Practicum, and DFT 299 Co-Op are used in the duplicated and unduplicated enrollments but are excluded in productivity calculations.

Variable credit in CAD 293 required review of individual student records. The average credit awarded was 3. Since it is a lab, 30 contact hours were awarded for each credit hour for a total of 90 contact hours.

The FTE-F is calculated using 20 contact hours per week.

Computer Information Technologies

Courses with a prefix of CIT, CS 115, CS 215, CS 216, and CS 275 are used for Computer Information Technologies productivity calculations.

CIT 105 enrollment contains students using this course to meet college computer literacy requirements.

Several courses contained duplicate listing of students in specific classes. The duplicate listings were removed from the unduplicated Student Enrollment count but are included in specific course enrollments and productivity calculations. In fall 2009, 299 duplicate lines were removed in CIT 105, CIT 11, CIT 120, CIT 130, CIT 150, CIT 160, CIT 260, and CS 115. In fall 2010, 291 duplicates were removed in CIT 105, CIT 111, CIT 120, CIT 130, CIT 160, CIT 170, CIT 180, and DS 115. In fall 2011 274 duplicates were removed in CIT 105, CIT 111, CIT 120, CIT 130, CIT 148, and CS 115.

Duplicated enrollments from the lab portion of CIT 260 have been excluded from all calculations.

The FTE-F is calculated using total credit hours divided by 15.

Computerized Manufacturing and Machining

Formerly Machine Tool Technology, Computerized Manufacturing and Machining uses course prefixes of MTT with the exception of any class section beginning with 18.

Duplicated enrollment from labs for MTT 114, MTT 132, and MTT 214 are excluded from all calculations.

MTT 298 Practicum and MTT 299 Co-Op are included in duplicated and unduplicated enrollments but are not used in the productivity calculations.

Course sections are used to differentiate Danville and Leestown campuses.

Engineering and Electronics Technology students enrolled in MTT(CMM)/132 are included in the Computerized Manufacturing and Machining calculations.

The FTE-F is calculated using 20 contact hours per week.

Construction Technology

With the exception of class sections beginning with 18 or 19, the course prefix CAR is used for Construction Technology enrollment and productivity calculations.

CAR 298 Practicum and CAR 299 Co-Op are included in duplicated and unduplicated enrollment counts but are not included in additional productivity measures.

Several courses provided variable credit resulting in a review of individual records before the credit and contact hours could be determined.

> CAR 168 – Review of individual student credit hours shows all students in both sections with 0.4 credit hours.
>
> CAR 198 (one section) – Review of individual student credit hours used to break down the course credit hours with an average credit hours used for the course determined to be 3 (1+1+5+3/6 = 3).

When applicable, *Accelerated Opportunity* classes (containing AO in course prefix) will be shown in gray but not included in the enrollment or productivity calculations.

The FTE-F is calculated using 20 contact hours per week.

Cosmetology

Courses with a prefix of COS or COSE are used for Cosmetology calculations.

Duplicated enrollments from labs in COS 205 and COS 218 are excluded from all calculations.

COS 135 (one section) – has variable credit. One student enrolled with 8 credit hours. With the course minimum credit hours assigned as 1 with 15 contact hours, then 120 contact hours were assigned for COS 135 (8 x 15 = 120).

When applicable, COS 135 is an independent study; therefore, the Cap is zero.

The FTE-F is calculated using 20 contact hours per week.

Criminal Justice

Course with prefixes CJ or CRJ and beginning with J, 16, and 19 are used for enrollment and productivity calculations for Criminal Justice.

The FTE-F is calculated using 15 credit hours.

Dental Assisting

Course prefixes of DAS are used for Dental Assisting calculations.

When a course identifies two instructors for a course (duplicate lines of enrollment), the instructor's names are combined to eliminate the duplicate information (e.g. Ritchie/Strong).

Duplicated enrollment from labs and lab/clinical courses are excluded (DAS 120 and DAS 130).

Courses with a DAH prefix from the Integrated Dental Hygiene program are listed in Dental Assisting but are not included in the enrollment and productivity calculations.

The FTE-F is calculated using 20 contact hours per week.

Dental Hygiene

The prefix DH is used for enrollment and productivity calculations for the Dental Hygiene Program.

Calculations for Dental Hygiene do not include the Integrated Dental Hygiene Program (course prefix DAH). Information for courses with a DAH prefix are listed on the Dental Assisting Productivity Report.

DH 220 Clinical is included in the duplicated and unduplicated enrollment counts but is not included in the productivity calculations.

DH 120 Clinical and DH 220 Clinical involves real patients with a 4:1 student to faculty ratio (160 hours a week coverage). In addition, a dentist is required to be present at all times during the clinicals.

Duplicated enrollment from labs and labs/clinicals are excluded for DH 120, DH 121, DH 226, and DH 229.

Duplicated enrollment as a result of separate faculty listed in DH 220 have been resolved by combining the faculty (e.g. Jones/Spencer).

The FTE-F is calculated using 20 contact hours per week.

Dental Laboratory Technology

Courses with a DLT prefix are used in productivity calculations for the Dental Lab Technology Program.

Duplicated enrollment from labs has been excluded for courses: DLT 101, DLT 121, DLT 131, DLT 151, DLT 261, and DLT 281.

The FTE-F is calculated using 15 contact hours per week.

Education

Courses with prefix ED and EDU are used in calculations and enrollment for the Education Program.

ED 105 Practicum/Co-Op is included in duplicated and unduplicated enrollment counts but is excluded from all other productivity calculations.

The FTE-F is calculated using total credit hours divided by 15.

Electrical Technology

ETT, EET (excluding EET 148, EET 274, and EET 275) course prefixes are used for Electrical Technology productivity and enrollment calculations.

EET 199 Co-Op is included in the enrollments (duplicated and unduplicated) but the numbers are excluded from all productivity calculations.

ET 265 enrolls students from Electrical Technology, Engineering & Electronics, and Industrial Maintenance Technology programs but is not included in Electrical Technology calculations.

Electrical Technology students enrolled in ENGT 110 and ENGT 114 are included in Engineering and Electronics numbers.

Engineering and Electronics and Industrial Maintenance Technology students enrolled in EET 270, EET 271, EET 264, EET 265, EET 276, and EET 277 are included in the Electrical Technology figures.

Electrical Technology students enrolled in FPX 100 and FPX 101 are included in Industrial Maintenance Technology calculations.

The FTE-F is calculated using 20 contact hours per week.

Engineering and Electronics Technology

EET 148, ET 232, MTT (CMM) 132 and courses with the ENGT prefix are included in the enrollment and productivity calculations for the Engineering and Electronics Program.

Engineering and Electronics Technology students enrolled in MTT(CMM)/132 are included in the Computerized Manufacturing and Machining calculations.

ENGT/ELT 110 and ENGT/ELT 114 may include Electrical Technology and Industrial Maintenance Technology students.

ET 265 enrolls students from Electrical Technology, Engineering & Electronics, and Industrial Maintenance Technology programs but it is not included in the calculations.

Duplicated lab enrollments are excluded for ENGT/ELT 110, ENGT/ELT 114, ENGT/ELT 120, ENGT/ELT 210, ENGT/ELT 214, ENGT/ELT 220, ENGT/ELT 250, ENGT/ELT 232, ENGT/ELT234.

Engineering and Electronics Technology students enrolled in EET 270 and EET 271 are included in the Electrical Technology Program calculations.

When applicable, ET 232 and ET 234 are included in the calculations.

Engineering & Electronics Technology students enrolled in EET 270 and EET 271 are included in Electrical Technology calculations.

Engineering & Electronics Technology students enrolled in FPX 100 and FPX 101 are included in Industrial Maintenance Technology calculations.

The FTE-F is calculated using 20 contact hours per week.

Environmental Science Technology

The course prefix EST is used for enrollment and productivity calculations for Environmental Science Technology.

Duplicated enrollment from labs in EST 150 and EST 240 have been excluded.

The FTE-F is calculated using 15 credit hours.

Equine Studies

Courses with prefix, EQS, EQM 100, EQM 120, EQM 140 are used for Equine studies calculations.

Duplicated enrollment from labs excluded for EQS 102 (J58L and J58K), EQS 103 (J58L), EQS 110 (J58L and J58K), EQS 112 (J58L and J58K), EQS 122 (J58L), EQS 203 (J58L), EQS 213 (J58L), EQS 222 (J58L) and EQS 223 (J58L).

The FTE-F is calculated using 20 contact hours per week.

Fire Science Technology

First Science Technology students are identified using courses with the FRS prefix.

The FTE-F is calculated using 20 contact hours per week.

Human Services

Human Service calculations are based on data from course prefixes HS and HMS.

Duplicated enrollment in HS 250 clinical are excluded prior to enrollment and productivity calculations.

The FTE-F is calculated using 15 credit hours.

Industrial Maintenance Technology

Courses with the prefix IMT, IEX, are used for Industrial Maintenance Technology studies. In addition, FPX 100 and FPX 101 are used in the productivity calculations.

Data from IMT 198 Practicum and IMT 199 Co-0p are included in the duplicated and unduplicated enrollment counts but not the productivity calculations.

ET 265 enrolls students from Electrical Technology, Engineering & Electronics, and Industrial Maintenance Technology programs and is not included in any of the calculations.

Industrial Maintenance Technology students enrolled in ENGT 110 and ENGT 114 are included in the Engineering & Electronics program calculations.

Industrial Maintenance Technology students enrolled in EET 264, EET 265, EET 270, EET 271, EET 276, and EET 277 are included in the Electrical Technology program calculations.

When applicable, EET 274, EET 275, and EET 102 are included in Industrial Maintenance Technology calculations.

The FTE-F is calculated using 20 contact hours per week.

Information Management and Design

Information Management and Design enrollment and productivity calculations are based on courses with a prefix of IMD or LIT.

Due to variable credit offered in IMD 271 and IMD 299, student records were reviewed showing all of the students received 3 units (3 x 15 = 45 contact hours).

The use of IMD 100 as a "Computer Literacy" course was implemented in 2011-2012.

The FTE-F is calculated using 15 credit hours.

Interdisciplinary Early Childhood Education

Courses with the prefix IEC or IECE are used for the Interdisciplinary Early Childhood Education program.

IECE 291/IEC 291 Practicum data is used with the duplicated and unduplicated enrollments but excluded from the productivity calculations.

The FTE-F is calculated using 15 credit hours.

Medical Assisting

Courses with the prefix MAI are used for Medical Assisting Program calculations.

MAI 281 Practicum and MAI 282 Externship are used for duplicated and unduplicated enrollments but are not included in the productivity calculations.

Duplicated enrollments in labs for MAI 120, MAI 140, and MAI 270 are excluded from all calculations.

The FTE-F is calculated using 20 contact hours per week.

Medical Information Technology/Office Systems Technology

Fall 2009 – Fall 2011 Medical Information Technology and Office Systems Technology enrollment and productivity are combined. In Fall 2012 they will be separated.

In fall 2012, all medical related OST courses will change to a MIT prefix.

The FTE-F is calculated using 15 credit hours.

Nuclear Medicine

Courses with the prefix NMI, NMMI and RDL 230 are included in the Nuclear Medicine productivity and enrollment calculations.

Duplicated enrollment for labs in NMMI 141 and NMI 141 have been excluded from the calculations.

Data from NMMI 150 and NMMI 26 Clinical are included in the duplicated and unduplicated enrollment figures but are excluded from the productivity studies.

The FTE-F is calculated using 15 credit hours.

Nursing

Courses with prefix NR, NRN, and NSG are used for the Nursing productivity and enrollment calculations.

Duplicated student enrollments noted in class sections containing “L”, “P”, and “C” are eliminated prior to calculations.

Open Lab contact hours vary by campus; 0 for Danville/Lawrenceburg Campus and 600 for the Lexington Campus.

Three full-time faculty are at the Danville/Lawrenceburg Campus with each teaching 18 student contact hours. Nine full-time faculty are at the Lexington Campus with each teaching 18 student contact hours. The remaining student contact hours are taught by adjunct faculty.

FTE-F is calculated using 18 contact hours per week.

The Faculty Contact Hours and Open Lab Hours are supplied by the Nursing Assistant Dean and Program Coordinator.

Practical Nursing

Course prefix NPN is used for the productivity and enrollment calculations for Practical Nursing.

Duplicated student enrollments from class sections containing “L”, “P”, and “C” are removed prior to calculations.

NPN 210 Practicum enrollments are included in the duplicated and unduplicated counts but are not included in the productivity calculations. Faculty Contact Hours for this course at the Danville campus is 15 hours with the Student Contact Hours including 15 hours of lecture and 135 hours of clinicals. For the Lexington Campus, the Faculty Contact Hours consists of 15 hours of lecture and 370 clinical hours. The Lexington Campus Student Contact Hours include 15 hours of lecture and 135 hours of clinicals.

Open lab contact hours are 600 for Lexington and 0 for Danville.

The Danville Practical Nursing Program has four full-time faculty with each teaching 18 student contact hours per week. The Lexington Practical Nursing Program has four full-time faculty that each teach 20 student contact hours per week. All additional contact hours are taught by adjunct faculty.

FTE-F for the Danville Campus is calculated by the Total Contact Hours per Week/18. For the Lexington Campus it is the Total Contact Hours per Week/20.

Radiography

Radiography Program studies include courses with a prefix of RADI or RDL.

RADI 101 Clinical, RADI 111 Clinical, RADI 201 Clinical, RADI 211 Clinical and RADI 221 Clinical data are included in the duplicated and unduplicated enrollment counts but not the productivity calculations.

Duplicated enrollment from labs for RADI 100 and RADI 210 have been excluded.

Duplicated enrollment shown due to multiple faculty have been combined to eliminate duplication of data (Ferrin/Miller).

The FTE-F is calculated using 18 contact hours per week.

Respiratory Care

Spring enrollment of courses with the prefix RCP are used for Respiratory Care studies.

Duplicated enrollment from labs in RCP 195 and RCP 212 are excluded from all calculations.

RCP 226 Clinical data is included in the duplicated and unduplicated enrollments but is excluded from the productivity calculations.

The FTE-F is calculated using 15 contact hours per week.

Surgical Technology

Surgical Technology calculations are based on all courses with the SUR prefix.

SUR 125 Clinical data is included in duplicated and unduplicated enrollment counts but has been excluded from other calculations.

External accreditation agency requires a 10:1 student to instructor ratio.

The FTE-F is calculated using 20 contact hours per week.

Welding

Courses with a prefix WLD are used for the Welding Program productivity studies.

WLD 298 Practicum data is included in the duplicated and unduplicated enrollment counts but not in the productivity calculations.

The FTE-F is calculated using 20 contact hours per week.

FINDINGS 2009-2011

Duplicated Enrollment – The enrollment count for all identified program courses. If a student is enrolled in more than once course, they are counted multiple times.

An increase in duplicated enrollment is noted in subsequent fall semesters for all of the Business and Education programs. It is also seen in Computer and Information Technologies, Human Services, Biotechnology, Air Conditioning Technology, Civil Engineering Technology, Computer Aided Drafting and Design, Computerized Manufacturing and Machining - Danville and Computerized Manufacturing and Machining – Lexington.

Programs in Allied Health, Nursing, along with Information Management and Design, Architectural Technology and Fire Science Technology show enrollment fluctuations between fall 2009 and fall 2011.

A downward enrollment trend is observed in Criminal Justice, Environmental Science Technology, Automotive Technology (2009 and 2011), Construction Technology, Cosmetology, and Welding Technology - Lexington.

The Manufacturing Industrial Technology Division consisting of Electrical Technology, Engineering and Electronics Technology, and Industrial Maintenance Technology. Programs in this Division show enrollment fluctuations with the highest enrollments noted in fall 2010.

Unduplicated Enrollment – The course enrollment counts with each student counted only once. If a student is enrolled in more than one course, they are only counted once.

With the exception of Business Management and Marketing, enrollment increases are noted in all Business and Education programs. Human Services, Civil Engineering Technology, Computerized Manufacturing and Machining – Lexington, Computer Aided Drafting and Design also show increases. Additionally, a marked increase is seen in Biotechnology and Computer and Information Technologies.

The following programs maintained their enrollments over the three year period: Dental Assisting, Dental Hygiene, Dental Laboratory Technology, Nuclear Medicine, Respiratory Care, Surgical Technology, Environmental Science Technology, all Nursing Programs (except Practical Nursing – Lexington), Air Conditioning Technology, Collision Repair Technology, and Computerized Manufacturing and Machining - Danville.

Fluctuations in enrollment are observed in the Manufacturing Industrial Technology Division programs (Electrical Technology, Engineering and Electronics Technology, and Industrial Maintenance Technology). Enrollment fluctuations are also noted in Criminal Justice, Information Management and Design, Architecture Technology, Construction Technology, Cosmetology, Fire Science Technology, Welding Technology - Danville, and Equine Studies.

A decrease in unduplicated enrollment is noted in Medical Assisting, Radiography, Automotive Technology and Welding Technology - Lexington.

Overall Percent Capacity – The percentage of total enrollment in program courses divided by the total capacity.

Those programs with less than 75% Overall Percent Capacity in two or more fall semesters include: Dental Assisting, Dental Laboratory Technology, Radiography, Business Management and Marketing, Criminal Justice, Human Services, Electrical Technology - Danville, Electrical Technology - Lexington, Industrial Maintenance Technology – Advance Technology Center, Industrial Maintenance Technology - Danville, Environmental Science Technology, Architectural Technology, Computerized Manufacturing and Machining - Danville, Computerized Manufacturing and Machining – Lexington, Computer Aided Drafting and Design, and Fire Science Technology.

A downward trend over the three year period (fall semesters) is noted in Information Management and Design, Construction Technology, and Welding - Lexington.

An increase in the three year period (fall semesters) is observed in Engineering and Electronics, Industrial Maintenance Technology - Lexington, Biotechnology, Civil Engineering Technology, and Welding Technology - Danville.

FTE-F – The total number of contact or credit hours (as defined by individual program coordinators) per week for full-time faculty. The definition of full-time workload varies from program to program.

Increased FTE-F are observed in Dental Assisting, Business Management and Marketing, Education, Criminal Justice, Human Services, Computer and Information Technologies, Practical Nursing - Lexington, Air Conditioning Technology, Architectural Technology, and Computerized Manufacturing and Machining - Lexington.

A decrease in FTE-F over the three fall semesters is observed in Dental Hygiene, Medical Assisting, Electrical Technology - Lexington, Engineering and Electronics Technology, and Computer Aided Drafting and Design.

The FTE-F from fall 2009 to fall 2011 remained relatively the same for each of the following programs: Dental Laboratory Technology, Nuclear Medicine, Radiography, Respiratory Care, Surgical Technology, Practical Nursing - Danville, Nursing - Lawrenceburg, Nursing - Lexington, Civil Engineering Technology, Collision Repair Technology, Computerized Manufacturing and Machining - Danville, Fire Science Technology, Welding - Danville, and Welding - Lexington.

The FTE-F varies over the three year period (fall semesters) for Interdisciplinary Early Childhood Education, Information Management and Design, Electricity - Danville, Industrial Maintenance Technology - Advanced Technology Center, Industrial Maintenance Technology - Danville, Industrial Maintenance Technology - Lexington, Biotechnology, Environmental Science Technology, Automotive Technology, Construction Technology, Cosmetology, and Equine Studies.

Total Enrolled Credit Hours – The sum of the total number of students multiplied by the credit hours assigned for each course.

Programs with the highest number of enrolled credit hours are shown below.

Program	Enrolled Credit Hours
Medical Information Technology/Office Systems Technology	8394
Computer Information Technologies	6816
Business Management and Marketing	3435
Information Management and Design	2802
Practical Nursing - Lexington	1769
Nursing - Lexington	1521
Practical Nursing - Danville	1065
Engineering and Electronics	1006

The tables below lists the programs with less than 200 enrolled credit hours. These programs represent one instructor programs.

Program	Enrolled Credit Hours
Nuclear Medicine	48
Electricity Danville	128
Automotive Technology	135
Civil Engineering	135
Collision Repair	190
Welding Lexington	184

Credit Hours Generated per FTE-F is the Total Enrolled Credit Hours divided by the FTE-F for the program.

The lists below show the programs generating the most hours per FTE-F and those generating the lowest number of hours per FTE-F.

HIGHEST NUMBER OF HOURS PER FTE-F (FALL 2011)

Program	Credit Hours Generated per FTE-F
Practical Nursing - Lexington	442
Business Management Marketing	344
Fire Science Technology	320
Practical Nursing - Danville	313
Medical Assisting	307

LOWEST NUMBER OF HOURS PER FTE-F (FALL 2011)

Program	Credit Hours Generated per FTE-F
Nuclear Medicine	80
Nursing - Lexington	80
Electricity - Danville	85
Computerized Manufacturing and Machining - Lexington	88
Welding - Lexington	88
Nursing – Lawrenceburg	88
Automotive Technology	96

Reviewing the trends of the Credit Hours Generated, increases in FTE-F from fall 2009 to fall 2011 are in Medical Assisting, Respiratory Care, Medical Information Technology/Office Systems Technology, Human Services, Electricity - Lexington, Industrial Maintenance Technology - Lexington, Biotechnology, and Civil Engineering Technology. Decreases are observed in Computer Information Technologies, Information Management and Design, Nursing - Lawrenceburg, Automotive Technology, Construction Technology, Cosmetology and Equine Studies.

The number of FTE Students (FTE-S) per FTE faculty (FTE-F)

Over 15 students per FTE-F (Fall 2011) are noted in the following programs:

Program	FTE-S/FTE-F
Practical Nursing - Lexington	29.5
Business Management and Marketing	22.9
Fire Science Technology	21.3
Practical Nursing - Danville	20.9
Medical Assisting	20.5
Medical Information Technology/Office Systems Technology	20.1
Education	17.5
Dental Assisting	17.4
Computer Information Technologies	17.0
Criminal Justice	16.9
Dental Hygiene	16.9
Interdisciplinary Early Childhood Education	16.7
Information Management and Design	16.0
Surgical Technology	15.1

Programs with less than 10 students taught per FTE-F (Fall 2011) are:

Program	FTE-S/FTE-F
Nuclear Medicine	5.3
Nursing - Lexington	5.3
Electricity - Danville	5.7
Computerized Manufacturing and Machining – Lexington	5.9
Nursing - Lawrenceburg	5.9
Welding - Lexington	5.9
Automotive Technology	6.4
Dental Laboratory Technology	6.7
Computer Aided Drafting and Design	7.2
Cosmetology	7.4
Collision Repair Technology	8.5
Industrial Maintenance Technology – Adv. Technology Center	8.7
Industrial Maintenance Technology - Danville	8.9
Computerized Manufacturing and Machining - Danville	9.0

Percentage of Full-Time Faculty

In fall 2009, fall 2010, fall 2011, all of the program courses are taught by full time faculty in Medical Assisting (excluding fall 2011), Nuclear Medicine, Radiography, Respiratory Care, Education, Criminal Justice, Electricity Technology - Danville, Engineering and Electronics, Biotechnology, Environmental Science Technology, Automotive Technology, Collision Repair Technology, Computerized Manufacturing and Machining - Lexington, Construction Technology, Computer Aided Drafting and Design, Cosmetology, Welding Technology - Danville, and Welding Technology - Lexington.

Human Services, Interdisciplinary Early Childhood Education, Information Management and Design, Industrial Maintenance Technology - Danville, Industrial Maintenance Technology - Lexington, Fire Science Technology and Equine Studies are programs with less than 50% of workload taught by full time faculty in one or more fall semesters.

Note: Part-time/Full time designations not available for Business and Education Division, Dental Assisting, Dental Hygiene, and the Nursing programs.

Additional Comments

- Automotive Technology appears to have a decrease in enrollment with less than 200 enrolled credit hours but since its curriculum is in a three semester cycle, data should be examined every other year rather than every year.
- Biotechnology shows a significant increase in growth and productivity.
- Civil Engineering Technology has demonstrated growth in enrollment and increased Overall Percent Capacity but has less than 200 enrolled credit hours (credits multiplied by enrollment).

- Computer literacy requirements result in increased enrollment and productivity calculations for Computer Information Technologies, Information Management and Design, and Medical Information Technology/Office Systems Technology
- Computer information Technologies enrollment (duplicated and unduplicated) and FTE-F show an increase over the three fall semesters with 55-65% of the classes taught by full-time faculty.
- Computerized Manufacturing and Machining – Lexington has an increase in duplicated and unduplicated enrollment but the Overall Percent Capacities are low (31%, 36%, and 57%).
- Construction Technology is showing overall drops in enrollment and productivity measures.
- Criminal Justice enrollment and FTE F have increased but the Overall Percent Capacity has dropped.
- Dental Lab shows significant drop in enrollment between 100 level and 200 level courses.
- Education has no full-time faculty but FTE-F is increasing (1.2, 1.4, and 1.8).
- The FTE-F has increased in Interdisciplinary Early Childhood Education (2.8, 4.4, and 3.8).
- Environmental Science Technology maintains program enrollment but has a low Overall Percent Capacity.
- Human Services shows an increase in duplicated and unduplicated enrollment. The clinical course, however, brings down the percent course capacity with only a small number of the students enrolled in this course. For example 15-20 students are enrolled in the majority of the courses but only 7 enroll in the clinical class.
- Medical Information Technology and Office Systems Technology will be separated in fall 2012.
- Nuclear Medicine maintains a low FTE-F and total number of students taught per FTE-F (8.0, 5.9, and 6.4).
- In the Nursing Division, Practical Nursing maintains a high ratio of students per FTE-F with the lowest ratios in Nursing – Lexington.
- Respiratory Care uses spring enrollment for productivity calculations.
- Welding - Lexington shows a decline in enrollment and Overall Percent Capacity.
- Overall, the programs generating the lowest number of hours per FTE are one instructor programs with the exception of the Nursing Programs and Computerized Manufacturing and Machining – Lexington.
- In addition to enrollments, and Overall Percent Capacity, programs with low FTE-S per FTE-F should be reviewed carefully.