

# OFFICE OF VOCATIONAL EDUCATION AND WORKFORCE DEVELOPMENT

Career and technical education programs administered by the Office of Vocational Education and Workforce Development (OVE&WD) prepare all students for new jobs, roles, technologies, and responsibilities in order to develop a competent workforce to support and enhance Mississippi's economy. The delivery system is effective and responsive to changing needs of business and industry. OVE&WD programs are part of an integrated educational delivery system that accommodates every secondary and postsecondary school district and provided instructional services to 170,600 Mississippians last year.

Career and technical programs in secondary, postsecondary, short-term adult, industry training, and business and industry partnership settings, enable students to acquire needed skills and abilities and achieve their educational and occupational goals. Programs include: Agriculture, Family & Consumer Sciences, Marketing, Trade and Industrial Education, Cooperative Education, Health, Technical Education, Business Education, Science and Technology, and Short Term Adult Programs to meet local needs.

## **Secondary Programs:**

Two hundred twenty-two (222) Career Discovery programs introduced 26,491 seventh grade students to career opportunities and the skills needed to develop and implement individual student career/educational plans that reflect student aptitudes, interests, and abilities. The programs provide experiences and activities that promote self-awareness, career exploration, and educational planning related to student's educational and occupational plans.

Two hundred fifty-one (251) Computer Discovery programs exposed 29,991 eighth grade students to a multimedia environment in which they developed computer skills, keyboarding, using operating systems (Windows), and file management. Real-world applications in word processing, graphics, databases, telecommunications, spreadsheets, and desktop publishing make the course exciting, relevant, and challenging.

One hundred seventy-five (175) Technology Discovery programs enabled 23,675 ninth grade students to explore technology resources, processes, and systems that lead to enhanced career development and advanced education. Students learned through researching, visualizing, modeling, designing, simulating, prototyping, keeping journals, preparing and making presentations and demonstrations, problem-solving, role-playing, and testing.

Twenty (20) Information and Communication Technology (ICT) programs served 2,775 eighth grade students.

Twenty (20) Science, Technology, Engineering, and Math (STEM) programs served 2,554 ninth grade students.

The comprehensive career planning/counseling component of Tech Prep organizes and expands career development strategies, activities, and experiences and assists all students in making realistic, achievable career plans. The career plans initiated in the seventh grade and updated annually through the twelfth grade help keep students focused on their goals.

Forty-four (44) Introduction to Agriculture Science programs served 1,474 students.

Two hundred sixteen (216) Family and Consumer Sciences Programs funded through H.B. 1467 served 26,746 unduplicated students.

Approximately 14,028 of these students enrolled in more than one of the course offerings that included Family Dynamics in 9<sup>th</sup> through 12<sup>th</sup> grades and other, optional, courses such as Child Development, Family/Individual Health, Family Living & Parenthood, Foods & Nutrition, Nutrition & Wellness, Personal Development, and Resource Management. Total (duplicated) enrollment for Family and Consumer Science Courses was 40,774.

Thirty-nine (39) Technology Applications programs served eight hundred ninety (890) students.

Secondary occupational programs provide for the development of essential, program area specific, occupational, and entrepreneurial skills for students in grades ten through twelve. Instruction in these programs incorporates structured learning activities that integrate vocational and academic objectives. Upon program completion, individuals possess marketable job skills and may enter the workforce or pursue postsecondary education, in directly related or indirectly related occupational and technical areas with possibilities for advanced placement, or other postsecondary offerings.

One thousand eighty one (1,081) secondary occupational programs served twenty-eight thousand six hundred twenty-nine (28,629) students.

**Secondary Occupational Programs and Enrollments**  
In Classification of Instructional Programs (CIP) Code Numerical Order

<b>Program Name</b>	<b>Program Count</b>	<b>Enrollment</b>
COOPERATIVE EDUCATION	75	2,099
CONCEPTS OF AGRICULTURAL SCIENCE	53	1,880
AGRICULTURE, GENERAL	22	511
AGRICULTURE AND NATURAL RESOURCES	23	491
AGRICULTURAL BUSINESS & MGMT.- GENE	4	47
AGBUSINESS & ENTREPRENEURSHIP(AEST)	45	245
AGRICULTURAL POWER MACHINERY OPERAT	13	327
AGRICULTURAL MECHANICS & EQUIPMENT	12	183
AGRICULTURAL PRODUCTION WORKERS &	10	161
AQUACULTURE OPERATIONS & PROD MGMT.	1	32
AG & FOOD PRODUCTS PROCESSING	2	40
HORTICULTURE SERVICE OP & MGMT.- GE	5	122
CUSTODIAN/GROUNDSKEEPER	1	9
ANIMAL SCIENCES, GENERAL	21	278
PLANT SCIENCES, GENERAL	41	548
ENVIRONMENTAL SCIENCE	30	281
FOREST HARVESTING & PROD. TECH.	12	236
RADIO/TELEVISION BROADCASTING TECH	1	32
GRAPHIC & PRINTING EQUIP. OPERATOR	5	111
COMPUTER PROGRAMMING/PROGRAMMER	1	28

INTEGRATED COMPUTER APPLICATIONS	1	8
COSMETOLOGY/COSMETOLOGIST, GENERAL	3	60
COOKING & RELATED CULINARY ARTS	33	1,108
TECHONOLOGY AND ENGINEERING PRINCIP	2	288
PLASTICS ENGINEERING TECHNOLOGY	4	98
COMPUTER TECHNOLOGY/COMPUTER SYSTEM	14	352
DRAFTING & DESIGN TECHNOLOGY	19	437
MECHANICAL DRAWING	1	15
ARCHITECTURAL DRAWING	1	40
ADULT DEVELOPMENT AND AGING	1	13
CHILD CARE PROVIDER/ASSISTANT	42	1,350
APPAREL AND TEXTILES, GENERAL	15	422
CONSTRUCTION TRADES, GENERAL	71	1,815
MASON & TILE SETTER	9	145
CARPENTER	15	443
ELECTRICIAN	7	164
ELECTRICAL/ELECTRONICS EQPT. INSTAL	6	144
HEATING & AIR CONDITIONING & REFRIG	4	80
INDUSTRIAL MECHANICS & MAINT. TECH.	8	131
AUTO/AUTOMOTIVE BODY REPAIRER	16	549
AUTO/AUTOMOTIVE MECHANIC/TECH	69	2,113
DIESEL EQUIPMENT REPAIR & SERVICES	2	45
SMALL ENGINE MECHANIC & REPAIRER	2	61
OUTBOARD ENGINE MECHANICS	1	15
VEHICLE & MOBILE EQUIP. MECHANICS	9	262
MACHINE SHOP ASSISTANT	4	78
WELDER/WELDING TECHNOLOGIST	17	455
METAL TRADES	44	1,058
FURNITURE DESIGN & MANUFACTURING	4	91
GRAPHIC DEISGN- COMMERCIAL ART	5	171
HEALTH SERVICES/ALLIED HEALTH, GEN.	96	3,638
BUSINESS/OFFICE AUTOMATION/TECHNOL.	101	2,935
BUSINESS COMPUTER APPLICATIONS	1	118
BUSINESS FINANCE AND CONSUMER TECH	1	15
HOSPITALITY ADMINISTRATION/MANAGEMT	4	157
SALES, DISTRIBUTION & MARKETING OPN	33	1,204
Total Counts State Funded Secondary Programs	1,081	28,629

The data presented above were collected by OVE&WD as Final Vocational Program Enrollment data for the 2007-2008 school year. The Classification of Instructional Programs (CIP) codes were initially developed by the U. S. Department of Education (USDE) National Center for Education Statistics (NCES) in 1980 and were revised in 1985 and 1990. Major changes have been made in the CIP-2000 revision. The implementation of the changes is incomplete at present and therefore correlated demand data for vocational-technical courses is not currently available. Care should be exercised in the use of this data for decision-making purposes. If more information is needed, please contact the Office of Vocational Education and Workforce Development.

## Postsecondary Programs:

Postsecondary programs provide beginning, advanced, and technical, program area specific, occupational and entrepreneurial preparation for skilled/technical occupations. These programs reflect current and emerging technologies and address the needs of industry and other employers. State-of-the-art technology used in industry and integrated academic components are incorporated in the curriculum. Upon completion of a postsecondary occupational program, individuals are prepared to enter skilled/technical level occupations.

In FY2007, 496 postsecondary programs served twenty thousand four hundred sixty (20,460) students.

### Postsecondary Occupational Programs and Enrollments In Classification of Instructional Programs (CIP) Code Numerical Order

CIP Code	Program Name	Program Count	Enrollment
010102	AGRIBUSINESS/AGRICULTURAL BUSINESS	2	39
010201	AGRICULTURAL MECHANIZATION, GENERAL	1	11
010299	AGRICULTURE MECHANIZATION, OTHER	1	17
010302	ANIMAL/LIVESTOCK HUSBANDRY AND PROD	1	23
010304	CROP PRODUCTION	1	48
010601	APPLIED HORTICULTURE/HORTICULTURE O	3	91
010605	LANDSCAPING AND GROUNDSKEEPING	2	54
010607	TURF AND TURFGRASS MANAGEMENT	1	11
030511	FOREST TECHNOLOGY	3	65
030601	WILDLIFE AND WILDLANDS SCIENCE AND	1	2
100202	RADIO AND TELEVISION BROADCASTING T	2	41
100305	GRAPHIC AND PRINTING EQUIPMENT OPER	2	36
110201	COMPUTER PROGRAMMING, GENERAL	13	736
110802	DATA MODELING/WAREHOUSING AND DATAB	1	31
110901	COMPUTER SYSTEMS NETWORKING AND TEL	13	670
111004	WEB/MULTIMEDIA MANAGEMENT AND WEBMA	5	153
120301	FUNERAL SERVICE AND MORTUARY SCIENC	6	152
120401	COSMETOLOGY, GENERAL	14	533
120402	BARBERING	4	161
120500	COOKING AND RELATED CULINARY ARTS,	7	163
120506	MEAT CUTTING	1	16
120508	INSTITUTIONAL FOOD WORKERS	1	14
150101	ARCHITECTURAL ENGINEERING TECHNOLOG	5	95
150201	CIVIL ENGINEERING TECHNOLOGY	3	70
150303	ELECTRICAL, ELECTRONIC AND COMMUNIC	20	897
150305	TELECOMMUNICATIONS TECHNOLOGY	3	80
150507	ENVIRONMENTAL ENGINEERING TECHNOLOG	1	5
150612	INDUSTRIAL ENGINEERING TECHNOLOGY	3	61
150613	MANUFACTURING TECHNOLOGY	6	170
150701	OCCUPATIONAL SAFETY AND HEALTH TECH	1	10
151001	CONSTRUCTION ENGINEERING TECHNOLOGY	5	94

151301	DRAFTING AND DESIGN TECHNOLOGY, GEN	18	946
160699	INDUSTRIAL PRODUCTION TECHNOLOGY, O	1	132
190709	CHILD CARE PROVIDER/ASSISTANT	16	1,077
190905	APPAREL AND TEXTILE MARKETING MANAG	1	37
220302	LEGAL ASSISTANT/PARALEGAL	9	337
220303	COURT REPORTING	1	28
460101	MASONRY	4	79
460201	CARPENTRY	6	154
460302	ELECTRICIAN	13	773
460502	PIPEFITTING AND SPRINKLER FITTER	1	29
460503	PLUMBING TECHNOLOGY	1	9
460504	WELL DRILLING	1	31
470103	COMMUNICATIONS SYSTEMS INSTALLATION	1	14
470104	COMPUTER INSTALLATION AND REPAIR TE	4	109
470201	HEATING, AIR, VENTILATION MAINTENAN	14	444
470303	INDUSTRIAL MECHANICS AND MAINTENANC	8	163
470408	WATCHMAKING AND JEWELRYMAKING	1	25
470603	AUTOBODY/COLLISION AND REPAIR TECHN	9	250
470604	AUTOMOBILE/AUTOMOTIVE MECHANICS TEC	16	413
470605	DIESEL MECHANICS TECHNOLOGY	6	112
470607	AIRFRAME MECHANICS AND AIRCRAFT MAI	3	40
470615	ENGINE MACHINIST	2	29
479999	MECHANIC AND REPAIR TECHNOLOGIES, O	1	24
480501	MACHINE TOOL TECHNOLOGY	10	135
480506	SHEET METAL TECHNOLOGY	1	16
480507	TOOL AND DIE TECHNOLOGY	3	85
480508	WELDING TECHNOLOGY	18	495
490202	CONSTRUCTION/HEAVY EQUIPMENT OPERAT	2	38
490205	TRUCK AND BUS DRIVER/COMMERCIAL VEH	11	225
500409	GRAPHIC DESIGN	3	125
510601	DENTAL ASSISTING	3	92
510602	DENTAL HYGIENE	3	93
510707	HEALTH INFORMATION/MEDICAL RECORDS	4	105
510713	MEDICAL INSURANCE CODING SPECIALIST	4	262
510716	MEDICAL ADMINISTRATIVE/EXECUTIVE AS	8	537
510801	MEDICAL/CLINICAL ASSISTANT	2	28
510803	OCCUPATIONAL THERAPIST ASSISTANT	3	80
510805	PHARMACY TECHNICIAN/ASSISTANT	1	22
510806	PHYSICAL THERAPIST ASSISTANT	4	150
510808	VETERINARY/ANIMAL HEALTH TECHNOLOGY	1	50
510901	CARDIOVASCULAR TECHNOLOGY	1	16
510904	EMERGENCY MEDICAL TECHNOLOGY, PARAM	11	448
510907	MEDICAL RADIOLOGIC TECHNOLOGY/SCIEN	3	103
510908	RESPIRATORY CARE THERAPY	9	284
510909	SURGICAL TECHNOLOGY	6	200
510910	DIAGNOSTIC MEDICAL SONOGRAPHY AND U	3	42
510911	RADIOLOGIC TECHNOLOGY	5	233
511004	CLINICAL/MEDICAL LABORATORY TECHNIC	8	221

511613	LICENSED PRACTICAL/VOCATIONAL NURSE	25	1,659
511614	NURSE/NURSING ASSISTANT/AIDE AND PA	5	169
511801	OPTICIANRY	1	11
513501	MASSAGE THERAPY	1	37
520203	LOGISTICS AND MATERIALS MANAGEMENT	1	160
520302	ACCOUNTING TECHNOLOGY AND BOOKKEEPI	5	78
520401	ADMINISTRATIVE ASSISTANT AND SECRET	28	3,368
520407	BUSINESS/OFFICE AUTOMATION/TECHNOLO	5	28
520803	BANKING AND FINANCIAL SUPPORT SERVI	2	48
520901	HOSPITALITY ADMINISTRATION/MANAGEME	10	269
521401	MARKETING/MARKETING MANAGEMENT, GEN	15	697
521902	FASHION MERCHANDISING	1	23
521907	VEHICLE AND VEHICLE PARTS AND ACCES	1	24
	Postsecondary Regular State Funded Totals	496	20,460

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### **Short-Term Adult Programs**

In FY2007, two hundred forty-seven (247) state funded short-term adult programs were conducted by secondary institutions serving three thousand three-hundred and one (3,301) adult students.

Three hundred forty-two (342) federally funded short-term adult programs conducted by secondary and postsecondary districts served four thousand five-hundred and four (4,504) adult students.

### **Accountability and Assessment**

The Mississippi Department of Education Office of Student Assessment, in cooperation with the OVE&WD, has developed and implemented a customized vocational assessment program, Mississippi Career Planning and Assessment System (MS-CPAS), which is used to determine progress in attaining educational goals. MS-CPAS is comprised of a number of occupation-specific examinations developed by the Mississippi State Research and Curriculum Unit (RCU) for use in measuring occupational knowledge and skills. The CPAS exams were printed and scored by the Research and Curriculum unit. The occupation-specific examinations are each tailored to correspond to specific vocational-technical programs within the Mississippi Curriculum Framework.

Forty-eight (48) Occupation-specific examinations were administered to completers of secondary vocational-technical program CIP types and fifty-two (52) occupation-specific examinations were administered to completers of postsecondary vocational-technical program CIP types.