

# Office of Vocational and Technical Education

## 2002-2003

Career and technical education programs administered by the Office of Vocational and Technical Education (OVTE) prepare all students for new jobs, roles, technologies, and responsibilities in order to provide a competent workforce to support and enhance Mississippi's economy. The delivery system is effective and responsive to changing needs of business and industry. OVTE programs are part of an integrated educational delivery system that accommodates every secondary and postsecondary school district and provided instructional services to nearly two hundred thousand Mississippians (193,492) 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 occupational goals. Programs include Agriculture, Family & Consumer Sciences, Marketing, Trade and Industrial Education, Cooperative Education, Health, Technical Education, Business Education, Work-Based Learning, Science and Technology, and Short Term Adult Programs to meet local needs.

### SECONDARY PROGRAMS

Program	Number of Students Served	Program Information
<i>The Mississippi Tech Prep Initiative</i>		
Career Discovery	33,877 seventh grade students	Two hundred fifty-two (252) Career Discovery programs introduced 33,877 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.
Computer Discovery	30,362 eighth grade students	Two hundred fifty-two (252) Computer Discovery programs exposed 30,362 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.
Technology Discovery	28,352 ninth grade students	Two hundred eighteen (218) Technology Discovery programs enabled 28,352 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.

Program	Number of Students Served	Program Information
<p>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.</p>		
<p><b><i>Secondary Non-occupational Programs</i></b></p>		
Introduction to Agriculture Science	2,056 students	Fifty-nine (59) Introduction to Agriculture Science programs served 2,056 students.
Family and Consumer Sciences	26,471 students	Two hundred twenty-six (226) Family and Consumer Sciences Programs funded through H.B. 1467 served 26,471 unduplicated students. Approximately 14,000 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 over 40,000 students.
<p><b><i>Secondary Occupational Programs and Enrollment</i></b></p>		
Secondary occupational programs	<p>28,325 students</p> <p>Enrollment consists of students in grades 10-12. (See chart below.)</p>	<p>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 (1,000) secondary occupational programs served students.</p>

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

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
000204	DIVERSIFIED COOPERATIVE EDUCATION	82	2,432
000241	SPECIAL POPULATIONS PERSONNEL	1	9
010101	AGRICULTURAL BUSINESS & MGMT., GEN.	9	150
010103	AGRICULTURAL ECONOMICS	17	102
010201	AGRICULTURAL MECHANIZATION	5	103
010204	AGRICULTURAL POWER MACHINERY OPERATION	23	636
010301	AGRICULTURAL PROD. WORKERS & MGRS.	36	805
010303	AQUACULTURE OPERATIONS & PROD MGMT.	1	41

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
010401	AGRIC. & FOOD PRODUCTS PROCESSING	2	49
010601	HORTICULTURE SERV. OP. & MGMT., GEN.	9	187
020101	AGRICULTURE SCIENCE	32	860
020201	AGRICULTURAL ANIMALS-AEST	11	208
020401	AGRICULTURAL PLANTS-AEST	20	286
029999	CONCEPTS OF AGRISCIENCE-AEST	29	1,120
030102	AGRICULTURAL ENVIRONMENT-AEST	15	166
030401	FOREST HARVESTING & PROD. TECH	12	294
080705	GEN. RETAILING OPERATIONS	28	954
100191	ELECTRONIC COMMUNICATION PRODUCTION	1	5
120403	COSMETOLOGIST	1	21
150607	PLASTICS TECHNOLOGY	1	34
150992	TECHNOLOGY APPLICATIONS	50	1,183
200201	CHILD CARE & GUIDANCE WORKERS & MGR	40	1,286
200301	CLOTHING, APPAREL & TEXTILE WORKERS	17	474
200401	INSTITUTIONAL FOOD WORKERS & ADMIN	34	1,142
200602	ELDER CARE PROVIDER/COMPANION	1	13
460101	MASON & TILE SETTER	9	195
460201	CARPENTER	13	355
460302	ELECTRICIAN	9	212
460490	BUILDING TRADES, GENERAL	69	1,909
470190	ELECTRONICS (SECONDARY)	8	137
470191	COMPUTER SYSTEM TECHNOLOGY	8	188
470201	HEATING, AIR CONDITIONING & REFRIG	4	85
470390	INDUSTRIAL MAINTENANCE TRADES	5	127
470603	AUTO/AUTOMOTIVE BODY REPAIRER	19	624
470604	AUTO/AUTOMOTIVE MECHANIC/TECH.	57	1,747
470605	DIESEL ENGINE MECHANIC & REPAIRER	2	42
470606	SMALL ENGINE MECHANIC & REPAIRER	3	69
470692	MARINE ENGINE MECHANICS	1	30
470699	VEHICLE & MOBILE EQUIP. MECHANICS	20	631
480101	DRAFTING, GEN.	25	570
480201	GRAPHIC & PRINTING EQUIP. OPERATORS	5	127
480503	MACHINE SHOP ASSISTANT	4	77
480508	WELDER/WELDING TECHNOLOGIST	17	433
480590	METAL TRADES	44	1,140
480790	FURNITURE MANUFACTURING AND UPHOLST	4	75
500402	GRAPHIC DESIGN, COMMERCIAL ART	2	56
511699	NURSING, OTHER	91	3,435
520408	GEN. OFFICE/CLERICAL & TYPING SERV.	101	3,408
520902	HOTEL/MOTEL & RESTAURANT MGMT.	3	65
521201	MGMT. INF. SYSTEMS & BUSINESS DATA	1	37
	<b>Totals</b>	<b>1,000</b>	<b>28,325</b>

The data presented above were collected by OVTE as Final Vocational Program Enrollment data for the 2001-2002 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 these data for decision-making purposes. If more information is needed, please contact the Office of Vocational and Technical Education.

## POST-SECONDARY 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 FY2003, 435 postsecondary programs served 23,561 students.

In FY2003, fourteen (14) Work-Based Learning programs at twelve (12) community/junior colleges (data not in the table below) comprised of classroom instruction (occupational and academic) and structured learning experiences at worksites assisted 700 students to bridge the gap between school and the workplace and meet their educational and employment preparation objectives and also met needs of business/industry. Work-Based Learning programs enable students to know how and what to do and why, and to become productive workers through educationally sound, occupationally specific, industry driven learning programs.

### Post-secondary Occupational Programs and Enrollments (in Classification of Instructional Programs (CIP) Code Numerical Order)

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
000254	SCIENCE & TECHNOLOGY	3	270
010102	AGRICULTURAL BUSINESS/AGRIBUSINESS	1	18
010104	FARM & RANCH MGMT.	1	67
010299	AGRICULTURAL MECHANIZATION, OTHER.	3	50
010302	AGRICULTURAL ANIMAL HUSBANDRY/PROD	1	17
010303	AQUACULTURE OPERATIONS & PROD MGMT	1	19
010492	FOOD PRODUCTS (MEATS-CERTIFICATE)	2	35
010501	AGRIC SUPPLIES RETAIL & WHOLESALE	1	53
010601	HORTICULTURE SERV. OP. & MGMT., GEN.	3	116
010605	LANDSCAPING OP. & MGMT.	3	97
010607	TURF MGMT.	1	36
030401	FOREST HARVESTING & PROD. TECH	5	161
030509	WOOD SCIENCE & PULP/PAPER TECH	1	13
080102	FASHION MERCHANDISING	2	63
081203	VEHICLE PARTS & ACCESSORIES MKTG OP	1	29
100104	RADIO/TELEVISION BROADCASTING TECH	1	24
100190	TELECOMMUNICATION	3	100
111004	WEB/MULTIMEDIA MGT. WEBMASTER	1	9
120301	FUNERAL SERV. & MORTUARY SCIENCE	5	242
120402	BARBER/HAIRSTYLIST	4	166
120403	COSMETOLOGIST	13	480
120503	CULINARY ARTS/CHEF TRAINING	1	61
131501	TEACHER ASSISTANT/AIDE	1	13
150101	ARCHITECTURAL ENGINEERING TECH	2	53
150201	CIVIL ENGINEERING/CIVIL TECHNOLOGY	3	60
150303	ELECTRICAL, ELECTRONIC & COMM. TECH	19	1,160
150402	COMPUTER MAIN. TECH.	3	130
150404	INSTRUMENTATION TECH.	3	121
150405	ROBOTICS	2	98
150507	ENVIRONMENTAL & POLLUTION CONTROL	1	22
150603	INDUSTRIAL/MANUFACTURING TECH	2	96
150607	PLASTICS TECHNOLOGY	1	16
159999	ENGR.-RELATED TECHNOLOGY, OTHER	1	86
190705	GERONTOLOGY	1	21

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
200201	CHILD CARE & GUIDANCE WORKERS & MGR	15	1,307
200301	CLOTHING, APPAREL & TEXTILE WORKERS	1	27
200401	INSTITUTIONAL FOOD WORKERS & ADMIN	4	133
220103	PARALEGAL/LEGAL ASSISTANT	5	369
460101	MASON & TILE SETTER	4	93
460201	CARPENTER	8	162
460302	ELECTRICIAN	11	721
460501	PLUMBER & PIPEFITTER	2	43
470103	COMMUNICATION SYSTEMS INSTALLER	2	48
470201	HEATING, AIR CONDITIONING & REFRIG.	13	494
470302	HEAVY EQUIP. MAIN. & REPAIRER	3	70
470390	INDUSTRIAL MAINTENANCE TRADES	3	50
470391	WELL DRILLING OPERATIONS	1	24
470408	WATCH, CLOCK & JEWELRY REPAIRER	1	30
470603	AUTO/AUTOMOTIVE BODY REPAIRER	9	244
470604	AUTO/AUTOMOTIVE MECHANIC/TECH.	16	580
470605	DIESEL ENGINE MECHANIC & REPAIRER	2	40
470608	AIRCRAFT MECHANIC/TECH., POWERPLANT	2	49
470690	AUTO MACHINIST	3	67
470692	MARINE ENGINE MECHANICS	1	35
480101	DRAFTING, GEN.	17	1,049
480208	PRINTING PRESS OPERATOR	1	17
480501	MACHINIST/MACHINE TECHNOLOGIST	1	13
480503	MACHINE SHOP ASSISTANT	11	234
480506	SHEET METAL WORKER	1	26
480507	TOOL & DIE MAKER/TECHNOLOGIST	3	88
480508	WELDER/WELDING TECHNOLOGIST	20	564
490202	CONSTRUCTION EQUIP. OPERATOR	2	43
490205	TRUCK/BUS/OTHER COMMERCIAL VEHICLES	8	187
500402	GRAPHIC DESIGN, COMMERCIAL ART	3	134
510601	DENTAL ASSISTANT	2	79
510602	DENTAL HYGIENIST	3	79
510707	MEDICAL RECORDS TECHNOL./TECH.	3	157
510801	MEDICAL ASSISTANT	2	33
510803	OCCUPATIONAL THERAPY ASSISTANT	2	58
510805	PHARMACY TECH./ASSISTANT	1	35
510806	PHYSICAL THERAPY ASSISTANT	4	105
510808	VETERINARIAN ASST. / ANIMAL HEALTH	1	43
510899	HEALTH & MEDICAL ASSISTANTS, OTHER.	1	23
510901	CARDIOVASCULAR TECHNOLOGY	1	18
510904	EMERGENCY MEDICAL TECHNOLOGY	6	345
510907	MEDICAL RADIOLOGIC TECHNOLOGY	9	511
510908	RESPIRATORY THERAPY TECH.	8	237
510909	SURGICAL/OPERATING ROOM TECH.	7	233
510910	DIAGNOSTIC MEDICAL SONOGRAPHY	1	17
511004	MEDICAL LABORATORY TECH.	7	261
511613	PRACTICAL NURSE (L.P.N. TRAINING)	23	1,423
511614	NURSING ASSISTANT/AIDE	5	203
511801	OPTICIANRY/DISPENSING OPTICIAN	1	16
520302	ACCOUNTING TECH.	1	28
520401	ADMINISTRATIVE ASSIST/SECRETARIAL	30	4,741
520404	MEDICAL ADMIN ASSIST/SECRETARIAL	2	133

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
520801	FINANCE, GEN.	1	23
520803	BANKING & FINANCIAL SUPPORT SERV.	1	78
520902	HOTEL/MOTEL & RESTAURANT MGMT	8	505
521201	MGMT. INF. SYSTEMS & BUSINESS DATA	12	1,550
521290	COMPUTER NETWORKING TECHNOLOGY	12	993
521401	BUSINESS MKT. & MKT. MGMT.	13	691
	<b>Totals</b>	<b>435</b>	<b>23,561</b>

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### Short-Term Adult Programs

In FY2003 four hundred thirty-five (435), short-term adult programs were conducted with 5,788 individuals enrolled.

<i>Accountability and Assessment</i>	
Vocational assessment programs	<p>The Mississippi Department of Education Office of Student Assessment, in cooperation with the OVTE, is developing and implementing a customized vocational assessment program that will provide the basis for determining progress in attaining educational goals. OVTE selected American College Testing (ACT) to produce a customized assessment program for implementing a vocational (work readiness and occupation-specific) assessment component of the Mississippi Career Planning and Assessment System (CPAS).</p> <p>In 2001, the following CPAS components were implemented for vocational assessment (work readiness and occupation-specific): 1. Three (3) Work Keys components (Reading for Information, Applied Mathematics, and Locating Information), 2. Twenty-four (24) occupational program area performance assessments, and 3. Forty-three (43) secondary and forty-three (43) postsecondary occupation-specific assessments tailored to meet Mississippi's needs.</p> <p>In 2002, thirteen (13) new secondary CPAS Tests were implemented along with nine (9) postsecondary ones.</p> <p>For 2003, sixteen (16) secondary and nineteen (19) postsecondary CPAS Tests have been designated for implementation.</p>