

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM Dr. R. Scott Ralls, President

February 20, 2012

MEMORANDUM

TO: Presidents

Chief Academic Officers

FROM: Sharon E. Morrissey

Senior Vice President and Chief Academic Officer

SUBJECT: State Board Action on February 17, 2012

On February 17, 2012, the State Board of Community Colleges approved the requested revision to the following curriculum standard:

Office Administration/Virtual Office Assistance (A2537B)

Please be aware that you must implement the revised standard no later than one year after the effective term. You must update your college's electronic programs of study and receive approval from the System Office prior to implementation of the revised program.

In addition, the State Board of Community Colleges approved curriculum courses and a curriculum standard for the following new curriculum program:

Business Analytics (A25350)

The curriculum standards and new courses are attached for your convenience. You may view all curriculum standards and courses by visiting the Academic Programs website at:

http://www.nccommunitycolleges.edu/Programs/index.html

On July 15, 2011, the State Board of Community Colleges adopted the 2011-2012 State Aid Allocations and Budget Policies, which included implementation of the Tiered Funding Formula. To implement the Tiered Funding Formula, all existing curriculum and continuing education course prefixes were assigned to one of three funding levels: Tier 1 included selected high-cost curriculum courses, Tier 2 included all other curriculum courses and selected continuing education courses that are mapped to a third-party credential or certification, and Tier 3 included all other continuing education occupational extension courses.

The Presidents' Association Program Committee Chair appointed a committee of presidents, a chief academic officer, and a chief continuing education officer to develop guidelines for the assignment of *new-to-the-System* curriculum and continuing education prefixes to the Tiered Funding Formula.

Presidents Chief Academic Officers Page 2 February 20, 2012

The following guidelines were approved by the Presidents' Association on October 28, 2011 and approved by the State Board of Community Colleges on January 20, 2012:

Tier 1

- Curriculum Health Science Prefixes
- Curriculum Technical Education Prefixes (Construction, Engineering, Industrial Systems and Transportation Systems)
- Curriculum Lab-Based Science Prefixes
- Other Curriculum Prefixes Based on the Following Considerations:
 - o Faculty requirements
 - Equipment start-up costs
 - Equipment ongoing costs
 - o Supply and software start-up costs
 - Supply and software ongoing costs
 - Enrollment limitations resulting from student/faculty ratios or program enrollment caps
 - o Instructor costs resulting from SACS requirements
 - o Required licensure or certification
 - o Market demand

Tier 2

- All other Curriculum Prefixes
- Continuing Education Occupational Extension Prefixes for each course that is scheduled for 96 or more hours and is mapped to a third-party credential, certificate, or industrydesigned curriculum

Tier 3

• All other continuing Education Occupational Extension Prefixes

Using the above approved Tier guidelines, the State Board of Community Colleges approved the following new-to-the-System prefixes for the following Tier classifications:

Tier I: Tier II:

EUS – Electric Utility Substation BAS – Business Analytics DMA – Developmental Math

NPO – Nonprofit Leadership and Mgt.

An updated *Curriculum Course Prefixes by Funding Tiers* list has been included for your convenience. This list can also be located by visiting the Academic Programs website at:

http://www.nccommunitycolleges.edu/Programs/prefixes.htm

If you have any questions concerning the State Board action items, please contact Ms. Jennifer Frazelle at (919) 807-7120 or frazellej@nccommunitycolleges.edu.

SEM/JF/gr

Attachments

c: Van Wilson

Jennifer Haygood

Elizabeth Self

Jennifer Frazelle

Program Coordinators

CC12-005

Email

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BUSINESS ANALYTICS

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 120 – Business Analytics I

Prerequisites: None Corequisites: None

This course introduces basic concepts of business analytics. Topics include an overview of data and text mining, forecasting and optimization techniques, data visualization, data security, and ethics. Upon completion, students should be able to demonstrate a basic understanding of analytics for decision-making in business.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 121 – Analytics Methods I

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Prerequisites: None

Corequisites: BUS 228 or MAT 151 or MAT 155

This course introduces basic methods in business analytics. Topics include exploratory data analysis, regression, linear programming, and statistical methods for process improvement. Upon completion, students should be able to demonstrate an understanding of problem-solving techniques for business decision-making.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 150 - Analytics Tools I

2 2 3

Prerequisites: BAS 121 Corequisites: None

This course introduces basic statistical and analytic tools for use in business decision-making. Topics include utilization of business analytics and/or statistical software packages. Upon completion, students should be able to use computer software packages to solve basic business analytical problems.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 220 - Business Analytics II

3 0 3

Prerequisites: BUS 110 and BAS 120

Corequisites: None

This course provides an in-depth exploration of business analytics. Topics include application of analytic methods to finance, marketing, web, geospatial data, logistics, information systems, and statistical analysis of databases. Upon completion, students should be able to demonstrate competence in analytics and be proficient at using software to aid in business decisions.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 221 - Analytics Methods II

3 0 3

Prerequisites: BAS 150 Corequisites: None

This course introduces advanced statistical methods in business analytics and its applications. Topics include exploratory data analysis, linear regression, linear programming, and statistical methods for process improvement. Upon completion, students should be able to apply statistical problem-solving to business decision-making.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 230 – Business Analytics III

2 3

Prerequisites: BAS 220 Corequisites: None

This course covers advanced concepts in business analytics. Topics include analytics and pertinent applications to project management, theory, advanced modeling, legal issues and responsibility, technical writing, and problemsolving skills. Upon completion, students should be able utilize their knowledge and skills in business analytics to independently guide decision makers.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 250 – Analytics Tools II 2 2 3

Prerequisites: BAS 150 Corequisites: None

This course introduces advanced statistical and analytic tools for use in business decision-making. Topics include utilization of computer software packages for business decision-making. Upon completion, students should be able to use analytic tools to solve business-related problems.

Effective Term - Fall 2012 [2012*03] - SBCC February 17, 2012

BAS 270 – Analytics Practicum 2 3 3

Prerequisites: BAS 220 Corequisites: None

This course is designed to use a case study method to simulate a comprehensive application of business analytics. Emphasis is placed on relevant data collection, evaluation, presentation skills, analysis, teamwork, and conflict resolution skills. Upon completion, students should be able to demonstrate their ability to apply business analytic methods and best practices in a simulated business setting.

CURRICULUM STANDARD

Effective Term Fall 2012 [2012*03]

Curriculum Program Title	Business Analytics	Code	A25350
Concentration	(not applicable)		

Curriculum Description

The Business Analytics curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in analytical professions. Business analysts process and analyze essential information about business operations and also assimilate data for forecasting purposes.

Students will complete course work in business analytics, including general theory, best practices, data mining, data warehousing, predictive modeling, project and operations management, statistical analysis, and software packages. Related skills include business communication, critical thinking and decision making.

Graduates should qualify for employment as data technicians, data scientists, business and data analytics engineers, and business analysts in the fields of finance, banking, logistics, marketing, healthcare, manufacturing, information technology, and government organizations.

Curriculum Requirements*

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit in Program	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B.** Concentration (*if applicable*). A concentration of study must include a minimum of 12 semester hours of credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours. Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

		Busi	ness Analytics (A253	50)		
				AAS	Diploma	Certificate
Mir	nimum M	ajor Hours Required		49 SHC	30 SHC	12 SHC
A.	CORE	-		32-34 SHC	15-16 SHC	
	Courses req	uired for the diploma are designated with *				
Req	uired Cou	rses:				
*	BAS 120	Business Analytics I	3 SHC			
*	BAS 121	Analytics Methods I	3 SHC			
*	BAS 150	Analytics Tools I	3 SHC			
*	BAS 220	Business Analytics II	3 SHC			
	BAS 270	Analytics Practicum	3 SHC			
	BUS 110	Introduction to Business	3 SHC			
	CTS 130	Spreadsheet	3 SHC			
	DBA 110	Database Concepts	3 SHC			
Req	uired Sub	ject Areas:				
		Skills(Select one):				
	CIS 110	Introduction to Computers	3 SHC			
	CIS 111	Basic PC Literacy	2 SHC			
	OST 137	Office Software Applicat.	3 SHC			
*Sta	tistics(Select					
	BUS 228	Business Statistics	3 SHC			
	MAT 151	Statistics I	4 SHC			
	MAT 155	Statistical Analysis	4 SHC			
Data	Managemer	nt(Select one)				
		Database Applications	3 SHC			
	DBA 120	Database Programming I	3 SHC			
	HBI 250	Data Mgmt and Utilization	3 SHC			
В.	CONCE	NTRATION (if applicable)				
C.	OTHER	MAJOR HOURS				
	To be select	ed from the following prefixes:				
	ACC. AIB	, BAF, BAS, BUS, CIS, CJC, COE, C	CSC. CTL CTS. DBA.			
		O, ETR, GIS, HBI, HRM, INS, INT,				
		T, OST, PAD, RLS, and WEB	150, 1111, 200, 11111,			
		guage courses (including ASL) that are not may be included in all programs up to a m	0 11			

CURRICULUM STANDARD

Effective Term Summer 2012 [2012*02]

Curriculum Program Title Office Administration Code A2537B

Concentration Virtual Office Assistance

Curriculum Description

Virtual Office Assistance is a concentration under the curriculum title of Office Administration. The curriculum is designed to prepare individuals to become independent contractors who possess the ability to offer administrative support services via e-mail, courier, fax, and telephone.

Students will acquire office skills required in today's business environment including utilization of word processing, spreadsheets, desktop publishing, and presentation graphics software. Coursework includes an introduction to the implementation of electronic commerce via the Internet and an introduction to telecommunications.

Graduates are prepared to pass examinations for Microsoft Office User Specialist Certification and are able to become self-employed contractors or work for an established virtual office service. Some graduates will prefer to gain experience working in a traditional office environment.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- **I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

[ref. 23 NCAC 02E.0204 (3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B.** Concentration (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours. Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

	Office Administratio	n/Virtual Office A	Assistance A253	37B	
			AAS	Diploma	Certificate
Min	imum Major Hours Required		49 SHC	30 SHC	12 SHC
A.	CORE		14-15 SHC	14-15 SHC	
	Courses required for the diploma are designated with *				
Req	uired Courses:				
*	OST 164 Text Editing Applications	3 SHC			
*	OST 184 Records Management	3 SHC			
Req	uired Subject Areas:				
*For	matting/Word Processing. Select one:				
	OST 134 Text Entry & Formatting	3 SHC			
	OST 136 Word Processing	3 SHC			
*Co	mputers/Information Systems. Select one:				
	CIS 110 Introduction to Computers	3 SHC			
	CIS 111 Basic PC Literacy	3 SHC			
	OST 137 Administrative Office Mgt	3 SHC			
*Off	ice Systems/Management. Select one:				
	BUS 135 Principles of Supervision	3 SHC			
	OST 181 Intro to Office System	2 SHC			
	OST 289 Office Systems Management	3 SHC			
В. С	CONCENTRATION		13 SHC	13 SHC	
	Courses unique to a concentration are designated with **				
Req	uired Courses:				
	ECM 210 Introduction to E-Commerce	3 SHC			
	OST 153 Office Finance Solutions	2 SHC			
**	OST 171 Intro to Virtual Office	3 SHC			
**	OST 271 Office Web Technologies	3 SHC			
**	OST 272 Virtual Office Capstone	2 SHC			
C.	OTHER MAJOR HOURS				
	To be selected from the following prefixes:				
	ACC, AIB, BUS, BAF, CIS, COE, CRT, CSC, CT ITN, MKT, NET, OMT, OST, and PSY	S, ECM, ECO, ISC,			
	Foreign language courses (including ASL) that are rapproved other major hours may be included in all path maximum of 3 semester hours of credit.				

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM CURRICULUM COURSE PREFIXES BY FUNDING TIERS: FY 2012-13 (02/17/12)

TIER 1 - H	lealth, Tech Ed, Science (Lab-based) Prefixes		2 - All Other Curriculum Prefixes
Prefix	Subject Area	Prefix	Subject Area
4ER	Aerospace & Flight Training	AAI	Animal Assisted Interactions
AHR	Air Cond/Heating/Refrig	ACA	Academic Related
ALT	Alternative Energy	ACC	Accounting
ANS	Animal Science	ACM	Animal Care and Management
ARC	Architecture	AGR	Agriculture
ARS	Automotive Restoration	AIB	American Institute of Banking
ASM	Aerostructure	ANT	Anthropology
ATR	Automation and Robotics	APS	Automotive Parts Sales
AUB	Automotive Body Repair	AQU	Aquaculture
AUC	Automotive Customizing Tech	ARA	Arabic
\UT	Automotive	ART	Art
AVI	Aviation Maintenance	ASL	American Sign Language
310	Biology	AST	Astronomy
BMS	Boat Manufacture & Service	AUM	Automotive Management
BMT	Biomedical Equipment	BAF	Banking and Finance
BPA	Baking and Pastry Arts	BAR	Barbering
BPM	Bioprocess Manufactur	BAS	Business Analytics
BTB	Boat Building	BPR	Blueprint Reading
BTC	Biotechnology	BPT	Broadcast Production
CAB	Cabinetmaking	BUS	
	S		Business
CAR	Carpentry	CCT	Cyber Crime Technology
CAT	Computed Tomography	CHI	Chinese
CET	Comp Engineer Tech	CIS	Information Systems
CHM	Chemistry	CJC	Criminal Justice
CIM	Cancer Information Management	COE	Cooperative Education
CIT	Cardiovascular/Vascular Interv	COM	Communication
CIV	Civil Engineer Tech	COS	Cosmetology
CMT	Construction Mgt.	CRT	Court Reporting
CPT	Chemical Process Technology	CSV	Customer Service
CSC	Computer Science	DAN	Dance
CST	Construction	DBA	Database Management Technolo
CTC	Chemical Technology	DDT	Developmental Disabilities
CTI	Computer Technology Integration	DES	Design: Creative
CTR	Clinical Trials Research	DMA	Developmental Math
CTS	Computer Information Technology	DRA	Drama/Theatre
CUL	Culinary	ECM	Electronic Commerce
CVS	Cardiovascular Sonography	ECO	Economics
CYT	Cytotechnology	EDU	Education
DDF	Design Drafting	EFL	English As A Foreign Language
DEA	Digital Effects & Animation	EHS	Environmental Health And Safety
DEN	Dental	ENG	English .
DET	Dietetic Technician	ENT	Entertainment Technologies
OFT	Drafting	EPT	Emergency Preparedness Techno
DIA	Dialysis Technology	EQU	Equine
DLT	Dental Laboratory Technology	ETR	Entrepreneurship
OME	Digital Media	FBG	Fiberglass and Moldmaking
OOS	Medical Dosimetry	FIP	Fire Protection
DT	Electroneurodiagnostic Tech	FLI	Foreign Language Interpreter
:GR	Engineering	FLO	Floral Design
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ELC	Electricity	FMW	Facility Maintenance

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM CURRICULUM COURSE PREFIXES BY FUNDING TIERS: FY 2012-13 (02/17/12)

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	HCT	Health Care Technology
В	HEA	Health
rial Science	HIS	
	_	History
tory Technology	HMT	Healthcare Management
and Optics	HOR	Horticulture
npact Development	HRM	Hotel and Restaurant Manageme
ning	HSC	Health Sciences
ry	HSE	Human Services
cycle Mechanics	HUC	Health Unit Coordinator
nical	HUM	Humanities
al Assisting	ILT	Industrial Laboratory Technology
al Laboratory Technology	IMS	Integrated Math/Science
enance	INS	Insurance
Propulsion Systems	INT	International Business
tic Resonance Imaging	IPP	Interpreter Preparation Program
e Science	ITA	Italian
sports Mgt	ITN	Internet Technologies
ge Therapy	IVS	Invasive Species Management
echnology	JOU	Journalism
g Assistant	JPN	Japanese
vasive Cardiovascular Te	LAR	Landscape Architecture
stru Exam Tech	LAT	Latin
rking Technology	LEX	Legal Education
r Medicine	LIB	Library Resources
rk Operating Systems	LOG	Logistics Management
	LSG	Landscape Gardening
	MAT	Mathematics
inrv	MEG	Metal Engraving
-	MHA	Mental Health
• •		Media Integration
•		Marketing and Retailing
		Metallurgical Science
n Emission Tomography		Military Science
= : :		Music
tting	NPO	Nonprofit Leadership and Mgt
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NORTH CAROLINA COMMUNITY COLLEGE SYSTEM CURRICULUM COURSE PREFIXES BY FUNDING TIERS: FY 2012-13 (02/17/12)

TIER 1 - Health, Tech Ed, Science (Lab-based) Prefixes		TIER 2 - All Other Curriculum Prefixes	
Prefix	Subject Area	Prefix	Subject Area
PLA	Plastics	NUT	Nutrition
PLU	Plumbing	ODL	Outdoor Leadership
PME	Power Mechanics	OMT	Operations Management
PPM	Poultry Proc Mach Tech	OSS	Operating Systems
PT	Pulp & Paper Tech	OST	Office Systems Technology
PSG	Polysomnography	PAD	Public Administration
PTA	Physical Therapist Assistant	PCC	Professional Crafts: Clay
тс	Pharmaceutical Tech	PCD	Professional Crafts: Design
RAD	Radiography	PCF	Professional Crafts: Fiber
RCP	Respiratory Care	PCJ	Professional Crafts: Jewelry
CT	Race Car Technology	PCR	Professional Crafts
EF	Refrigeration	PCS	Professional Crafts: Sculpture
REH	Rehabilitation Assistant	PCW	Professional Crafts: Wood
TT	Radiation Therapy Technology	PED	Physical Education
RVM	Recreational Vehicle Maint	PFN	Photofinishing
SEC	Information Systems Security	PHI	Philosophy
GD	Simulation & Game Development	РНО	Photography
GR	-	PHS	
LP	Scientific Graphics	PKG	Physical Science
	Speech-Language Pathology Asst		Packaging
ON	Medical Sonography	PMT	Project Management Technology Political Science
RV	Surveying	POL	
ST	Sustainability	POR	Portuguese
TP	Central Sterile Processing	POS	Postal Service
UR	Surgical Technology	PRN	Printing
CT	Telecommunication Tech	PSF	Physical Fitness Technology
EL	Telecom Install & Maint	PSY	Psychology
NE	Telecom & Ntwk Engin Te	REA	Real Estate Appraisal
IPH	Upholstery	REC	Recreation
EN	Viticulture/Enology	RED	Reading
ET	Veterinary Medical Technology	REL	Religion
/AT	Water & Wastewater Trt	RLS	Real Estate
√LD	Welding	RSM	Resort and Spa Management
/PP	Wood Products	RUS	Russian
		SAB	Substance Abuse
		SCI	Science
		SOC	Sociology
		SPA	Spanish
		SPI	Spanish Interpreter
		SSM	Shooting and Hunting Sports Mana
		SSS	Shared Record
		SWK	Social Work
		TAT	Travel and Tourism
		TRE	Therapeutic Recreation
		TRF	Turfgrass Management
		TRP	Truck Driver Training
		TXY	Taxidermy
		VWR	Voice Writing Realtime Reporting
		WEB	Web Technologies
		WOL	Wheels of Learning
		WWK	Woodworking