

WASHINGTON WEST SUPERVISORY UNION

High School Program of Studies Analysis
2009-2010

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Introduction

The following summary is comparative analysis of courses offered at Harwood Union High School compared to Burlington, Essex, Montpelier, Mount Mansfield, South Burlington and U32 High School. The purpose of the study is to identify similarities and differences as a basis for course and curriculum planning. As a tool, this document can also provide insight into variations in Statewide testing data.

Included in this analysis are statistical comparisons of demographics, and courses offered at each school as presented in the Program of Studies. Tech Center offerings have not been included. Each school has access to one or more area Tech Centers that students may choose to enroll in.



It is important to understand that this analysis was completed by reviewing the schools' program of studies and determining which courses were *potentially* similar. With the exception of Advanced Placement courses (which have nationally prescribed curricula), the courses selected as comparable were chosen based on course title and description, not by analyzing course curricula or syllabi. There may in fact be significant differences between courses from school to school as there often can even be differences between identical courses within the same school. This document should only be used for the purpose of screening course offerings by content representation and implied leveling. A much more detailed examination would be needed to determine exact alignment.

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At a Glance Comparison

High School	Enrollment	Grad. Rate	Drop Out Rate	Student/Teacher Ratio	F/R Lunch %	Per Pupil Expenditures	Average Teacher Salary
Harwood Union High School	645	93%	1.55%	11.75	13%	\$12,162	\$56,190
Burlington High School	1196	93%	4%	13.69	41%	\$14,615	\$54,232
Essex High School	1473	92.50%	2%	12.60	9%	\$12,615	\$58,596
Montpelier High School	378	92.31%	3.14%	9.34	18%	\$12,511	\$48,630
Mount Mansfield High School	958	95.72%	1.12%	15.63	10%	\$11,850	\$51,431
South Burlington High School	912	96.18%	1.27%	12.84	11%	\$13,560	\$65,036
U32 High School	856	86.71%	2.10%	11.63	20%	\$13,013	\$48,103

Note the figures above come from the 2007-2008 School Report
Per Pupil Expenditures are from FY10

Graduation Requirements

	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlington	U32	
English	4	4	4	4	4	4	4	
Mathematics	4	3	3	3	3	3	3	
Science	3	3	3	3	3	3	3	
Social Studies	3	3	3	3	3	3	3	
Fine Arts	1	1	1	1	1	1	1	
PE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Health	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Computers	0.5	0.5	0.5	0.5	0.5	0.5		
Careers/FACS		0.5	0.5	0.5				
World Languages		1	1	1				
Advisory						1		
Total Mandatory Required	17.5	18	18	18	16	17.5	16.5	16
Total Grad. Credits	24	24	24	24	23	22	20	22

Program Of Studies: Business And Information Technology

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlington	U32
Keyboarding/Computer Basics	x	x		x	x		
Computer Applications I/Basic	x	x	x	x		x	x
Computer Applications II			x			x	x
Computer Applications III			x				
Advanced Computer Applications			x			x	x
21st Century Computer Applications		x					
Computer Programming	x					x	
Computer Science and Robotics						x	x
Computers in Rec. Management			x				
Marketing/Advertising		x	x			x	
Intro to Business				x		x	
Entrepreneurship						x	
Business LAB						x	
Business Law		x	x			x	
Business Math	x			x			
Accounting I	x	x	x		x	x	x
Accounting II	x	x					x
Economics			x		x		
Personal Finance	x	x	x		x	x	x
Record Keeping					x		
School Publications I	x	x	x			x	
School Publications II	x		x				
School Publications III							
Business Internship					x		x
Career Exploration	(offered in another dept)	x					
PC Hardware and Software						x	

Program Of Studies: Design and Technology Education

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burling	U32
Metals Technology I	x	x			x	x	x
Metals Technology II	x				x		x
Transportation	x						
Aerospace Technology	x						
Technical Drawing I/Mechanical Drafting	x				x		x
Technical Drawing II- CAD	x				x	x	x
Advanced CAD and 3D design							x
Wood Technology I	x			x	x		x
Advanced Wood Technology					x		x
Furniture Construction	x						x
Architectural and Building Systems	x	x	x		x		x
Pre-tech Vocational Course	x			x			
Technology Systems I/ Networking		x			x		
Tech Systems II/ Networking II		x			x		
Graphic Design	x	x			x		x
Graphic Design II					x		
Computer Animation			x		x		
Computer Animation II			x				
Competitions (design challenges)		x					
Construction		x					
Chief x							
Digital Photography/Digital Media		x	x		x	x	
Electronics			x				
Webpage Design I	x		x			x	
Webpage Design II	x						
How Things Work			x		x		
Forensics			x				
Alternative Power and Energy Technologies							x
Flash Animation and Game Design						x	
Electronic Arts I (3D Animation)						x	
Electronic Arts II						x	
Electronic Arts III						x	
Digital Video I			x				
Digital Video II							
Movie Production			x			x	

English

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burling	U32
Reading Intervention I		x	x		x		x
Reading Intervention II		x			x		x
Freshman Eng.	x	x	x	x	x	x	x
Freshman Honors	x	x	x		x	x	x
Sophomore Eng.	x	x	x	x	x	x	x
Soph. Honors	x	x	x		x	x	
Amer. Lit	x	x	x	x	x	x	x
World Lit.	*x	*x	x		x		x
Ap. Lit	*x	*x	x	x	x	x	
*Electives							
Creative Comm.	x				x		
Creative Writing	x	x	x	x	x		
Intermediate Writing			x				
Advanced Writing			x		x		
Poetry	x	x	x				x
Public Speaking	x	x	x	x	x		
Media Lit.	x					x	x
Graphic Lit.	x						
Hope:Rwanda							
Humanities	x		x	x	x	x	x
Brit. Lit	x		x				x
Newspaper	x		x		x		x
Fairy Tales	x						
Senior Seminar	x						
Women's Lit	x	x					x
Book Publishing	x						
Cinema Studies		x			x	x	x
Shakespeare		x	x		x		x
World Ideas I		x	x			x	
World Ideas II		x					
Modern Lit I		x	x			x	x
Modern Lit II		x					
Science Fiction			x				
Holocaust Studies						x	
Justice						x	

FACS

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burling	U32
Foods for the 21st Cent	x		x				
Gourmet Cuisine	x			No courses offered	No courses offered		x
Cooking I			x				x
International Cooking		x	x				
Food Entrepreneur							x
On Your Own	x		x			x	x
Child Psych	x		x			x	
Child Psych II			x				
Bake Shop	x						
Textile Studies I	x		x				
Textile Studies II	x						
Designing Living Spaces	x		x				
Reality Design			x				
Fashion and Design	x		x				

Health and PE

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burling	U32
Personal Wellness	x				x		x
Health	x	x	x	x	x		
Personal Fitness	x		x	x	x	x	x
PE Activities	x		x	x		x	x
Coaching Methods	x				x		x
Adventure PE	x		x		x		x
Advanced PE		x				x	
Movement Exploration		x					
Racquet Sports			x				
Target Sports			x				
Dance(not fine arts credit)					x		
Martial Arts					x		
First Aid					x	x	
Plyometrics						x	
Fitness Walking							

Program Of Studies: Mathematics

9th Grade Math Offerings

	Lowest	Low	Medium	High	Highest
HARWOOD*	Math Inquiry	Intro Alg.	Alg. I	Geometry Algebra I	
BURLINGTON*	Elements of Math	Pre Alg.	Algebra	Geometry	
ESSEX	Pre-Alg. I	Pre-Alg. II	Algebra I	Algebra IB	Algebra IA Geometry A
MMU	Applied Math I	Pre-Alg.	Algebra I		Geom9 Honors
Montpelier	Foundations I		Algebra I	Geom/Trig	Adv. Geom w/Trig
S. Burlington	Pre-Alg.	Algebra I(pt 1)	Algebra I		Geom. Accl.
U32	IDM1	IMP1B		IMP1 or Alg.1	Alg.I/Geo.

10th Grade Math Offering

Includes any of the previous courses plus the following

	Lowest	Low	Medium	High	Highest
HARWOOD*	Personal Finance	Intermediate Alg. Practical Geometry	Geometry	Alg. II	Alg. II Honors
BURLINGTON*			Geometry Algebra II	Honors Geometry Honors Algebra II	
ESSEX		Geometry	GeometryB	Alg. II A	Alg. IIAHonors
MMU	Applied Math II	Integrated Math2	Geometry		Alg. IIHonors
Montpelier	Foundations II		Geom/Trig	Alg. II	Adv. Alg.II
S. Burlington		Algebra I(pt. 2)	Geom.2	Geom.1	Alg.2Accl.
U32	IDM2	IMP1B/2B		Imp2 or Plane Geom.	Alg.2/Geom

11th Grade		Includes any of the previous courses plus the following				
	Lowest	Low	Medium	High	Highest	
HARWOOD	Financial Planning for the Future	Prac. Geometry	Trig. Adv. Math Stats/Prob.	Pre-Calc/Trig	Pre-Calc. Honors	
BURLINGTON	Applied Personal Math			Pre-Calc/Trig	Pre-Calc. Honors	
ESSEX	Mathematics of Financial Literacy		Alg. II	ATPS(Int.) Calc.	Pre-Calc. Honors	
MMU	Applied Math III		Alg. II	Pre-Calc.	Pre-Calc. Honors	
Montpelier	Applied Bus. Math		Alg. II	FSTrig.	Pre-Calc.	
S. Burlington	Consumer Math		Alg.II2	Alg. II1 Pre-Calc.1	Pre-Calc.Accl	
U32	Money Matters	IMP2Bcont.	IMP3 or Alg. II	Animation	Functions	
12th Grade		Includes any of the previous courses plus the following				
	Lowest	Low	Medium	High	Highest	
HARWOOD*				Calc. Honors	AP Calc.(AB)	
BURLINGTON*				Calc. Honors Trig./ Discrete	AP Calc. AP Stats.	
ESSEX			Intro to Calc.	AP Calc(AB)	AP Calc(BC) APStats	
MMU	Applied Math IV		SPDisc.	Calc.	AP Calc.(AB)	
Montpelier					AP Stats(AB)APStats	
S. Burlington			Prob/Stat	Calc. 1 AP Calc(AB)	AP Calc(BC) APStats	
U32			Pre-Calc. Prog.and Animation	Calc. Functions	APCalc. APStats.	

Music

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlington U32
Chorus	x	x	x	x	x	x
Advanced Chorus		x	x	x	x	x
Chamber Singers		x	x	x		x
Madrigal Choir		x				
Band	x	x	x	x	x	x
Symphonic Band		x	x			x
Wind Ensemble		x	x		x	x
Strings/ Orchestra		x	x	x	x	x
Jazz Band	x	x	x	x	x	x
Jazz Lab/Improv	x	x	x	x		x
Music Theory	x	x	x			x
AP Music Theory		x	x		x	
Music Technology I	x			x		
Music Technology II/II	x					
History of Rock	x		x			
Music Literature		x				
Piano I			x		x	
Piano II			x			
World Drumming						x
Guitar I			x		x	
Guitar II					x	
Guitar Ensemble						x
Independent Study	x	x				

Note: Extra Curricular options not included

History/Social Studies

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burling	U32
Principals of Social Studies				X			
World History Fundamentals	x	x					
World History	x	x	x	x	x	x	x
World History Honors	x	x					
Western Civilization I and II					xx		
Three Democracies	x						x
Three Democracies Honors	x					x	
US History	x		x	x	x	x	x
US History Honors	x				x	x	
Modern US History	x	x					
AP European History	x	x				x	
AP World History		x	x		x		
AP US History		x	x	x	x		
AP Government/Politics		x	x			x	
AP Comparative Gov.			x				
<i>electives</i>							
Economics	x	x		x	x	x	x
VT History	x						
Current Events	x	x	x		x		
Psychology	x	x	x	x	x	x	x
History On Film	x	x		x		x	
Law	x				x		
Global Citizenship	x		x			x	
Creating Sustainable Community						x	
Anthropology		x					
Womens' History		x					
United Nations/World Affairs		x	x		x	x	
Cultural Exploration			x				
American Spirit			x				
Sociology			x	x	x		x
Great Ideas			x				
War and American Society			x				
The Constitution			x				x
Public Speaking				x			

History/Social Studies Continued

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burling	U32
Geography				x			x
Career Options					x		
African Studies					x	x	
Humanties						x	
American Foreign Policy						x	
Holocaust Studies						x	
History of the Holocaust						x	
Asian Studies						x	
Modern European History							x

Visual Arts

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlington	U32
Jewelry	x		x				x
Jewelry II	x		x				x
2 Dimensional Design	x						x
Intro to Crafts	x						
Clay I	x	x	x			x	x
Clay II			x		x	x	x
Clay III			x		x		
Studio Art		x	x	x		x	x
Studio Art II		x	x	x		x	x
Advanced Studio Art/Portfolio	x	x	x	x	x	x	x
AP Art			x			x	
Basketry	x						
Intro to Drawing			x		x		x
Drawing II					x		x
Intro to Painting	x		x		x	x	x
Painting II					x		
Ceramics	x						
Ceramics II	x						
Photography I	x		x	x	x		x
Photography II	x				x		
Independent Photography/Adv	x						
21st Century Design			x			x	
Global History Through Arts			x				
Calligraphy					x		
Calligraphy II					x		
Printmaking					x		
Art Intern			x				x

Science

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlington	U32
Topics in Earth/Space	x		x		x		
Earth/Space	x		x		x	x	x
Earth/Space Honors	x						
Topics in Biology	x		x		x		
Biology	x	x	x	x	x	x	x
Biology Honors	x		x		x	x	
AP Biology		x		x	x		
Science and Technology	x				x		x
Everyday Science	x					x	
Intro to Chemistry						x	x
Chemistry	x	x	x	x	x	x	x
Chemistry Honors	x		x	x	x		x
AP Chemistry		x	x			x	
Intro to Physics				x		x	x
Physics	x	x	x	x	x		x
AP Physics	x		x		x	x	x
Environmental Application				x	x		x
Environmental Application II							
Honors Environmental Science	x	x					
AP Environment Science						x	
Human Physiology	x	x	x		x		x
Tech Systems I		x					
Tech systems II		x					
Astronomy			x	x		x	
Field Study			x				
Botany			x				
21st Century Design			x				
Ecology			x		x		x
Forensics			x		x		
Geology				x			
Atmospheric Science						x	

Theater Arts/ Dance

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlingt	U32
Acting I	No courses	No courses	x	x	No courses	No courses	x
Acting II	offered	offered	x	x	offered	offered	x
Improvisation I			x				
Improvisation II			x				
Film I			x				
Film II			x				
Backstage/Production							x
Dance 1			x				

World Languages

Course Name	Harwood	Burlington	Essex	Montpelier	MMU	So. Burlington U32	
Intro to Lang.					x	x	x*
French I	x	x	x	x	x	x	x*
French II	x	x	x	x	x	x	x*
French III	x	x	x	x	x	x	x*
French IV	x	x	x	x	x	x	x*
French V	x	x	x			x	x*
AP French		x	x	x	x	x	
French Assistant					x		
Intro to Spanish						x	
Spanish I	x	x	x	x	x	x	
Spanish II	x	x	x	x	x	x	
Spanish III	x	x	x	x	x	x	
Spanish IV	x	x	x	x	x	x	
Spanish V	x	x	x			x	
AP Spanish		x	x	x	x	x	
Spanish Assistant					x		
Latin I	x	x	x	x	x	x	
Latin II	x	x	x	x	x		
Latin III	x	x		x	x		
Latin IV	x	x		x	x		
AP Latin		x	x				
Latin Assistant					x		
Chinese I		x					
Chinese II		x					
Chinese III		x					
German I		x				x	
German II		x				x	
German III		x				x	
German IV		x				x	
Japanese I			x			x	
Japanese II			x			x	
Japanese IV						x	

*U32 only offers a combined French and Spanish