		2	010 Vigre REU	Summer Progra	am Schedule		
				Week 1			
	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun
Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-8:45							
8:45-9:00							
9:00-9:15							
9:15-9:30		Welcome	Martin	Analytic Num	har Theory	(, , , , , , , , , , , , , , , , , , ,	
9:30-9:45		Lockett 112	Iviar un: A	Analytic Num	ber meory	(Lockett 112)	
9:45-10:00		1					
10:00-10:15							
10:15-10:30				·	·		
10:30-10:45		Mentoring Workshop	Kocic: Ma	athematical N	Aodeling in Life	e Sciences	
10:45-11:00		McGuire			ett 112)		
11:00-11:15				LOCK			
11:15-11:30							
11:30-11:45							
11:45-12:00							
12:00-12:15							
12:15-12:30	_	LaTex Computer	P	Perlis: Groups	and Symmetr	rv	
12:30-12:45	-	Setup, get Tiger Cards		· · · · · · · · · · · · · · · · · · ·	ett 112)	•	
12:45:1:00	-	and parking permits,		LOCK	en 112)		
1:00-1:15	-						
1:15-1:30	_	Lunch, etc.					
1:30-1:45	-			Davidson: Fo	ourier Analysis	5	
1:45-2:00	Students move				aett 112)		
2:00-2:15				LUCK	ett 112)		
2:15-2:30	into dorms	Latex Workshop:	Refreshments		Refreshments		
2:30-2:45	_	•			Collaborative		
2:45-3:00	-	Part I		Latex	Learning Workshop		
3:00-3:15	_	Davidson		Workshop:	McGuire		
3:15-3:30	-		Math Circles	Part II Davidson		Math Circles	
3:30-3:45		Dizzo Doutu	234 Prescott			234 Prescott	
3:45-4:00		Pizza Party					
4:00-4:15		Keisler Lounge					
4:15-4:30		Lockett 321					
4:30-4:45	Campus Tour						
4:45-5:00	Dennis Hall						
5:00-5:15	Lisa Warsauer						
5:15-5:30							
	Dinner at Chimes						

			2010 Vigre REU	Summer Progr	am Schedule		
				Week 2			
	13-Jun	14-Jun	15-Jun	`	17-Jun	18-Jun	19-Jun
Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-8:45							
8:45-9:00							
9:00-9:15							
9:15-9:30			Martin: Anal	vtic Number	Theory		
9:30-9:45			Iviai tiii. Allai	ytic Number	meory		
9:45-10:00							
10:00-10:15							
10:15-10:30							
10:30-10:45		Koci	c: Mathemati	cal Modeling	in Life Science	es	
10:45-11:00 11:00-11:15		_					
11:00-11:15			1	1	1	1	
11:15-11:30							
11:45-12:00							
12:00-12:15							
12:15-12:30							
12:30-12:45			Perlis: Gr	oups and Syn	nmetry		
12:45:1:00		-					
1:00-1:15							
1:15-1:30				1		1	
1:30-1:45			Douideo		alvaia		
1:45-2:00			Davidso	n: Fourier An	alysis		
2:00-2:15							
2:15-2:30			Refreshments		Refreshments		
2:30-2:45						Latex	
2:45-3:00		MANIC					
3:00-3:15		MNS	MNS			Workshop:	
3:15-3:30		205 Prescott	and		Math Circles	Beamer	
3:30-3:45		2:30-5:00	Math Circles	MNS	234 Prescott	McGuire/Viator	
3:45-4:00				205 Prescott			
4:00-4:15		-	205 Prescott				
4:15-4:30 4:30-4:45		BBQ	234 Prescott				
4:45-5:00		Greek Amphitheatre					
5:00-5:15		4:00-6:00					
5:15-5:30							
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		2	010 Vigre REU	Summer Progr	am Schedule		
				Week 3			
	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun
Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-8:45							
8:45-9:00							
9:00-9:15							
9:15-9:30		Mart	in: Analytic N	Number Theo	rv.		
9:30-9:45		Iviait	III. Analytic I	uniber meo	' y		
9:45-10:00			1		1		
10:00-10:15			l	1		Math Circle	
10:15-10:30						Project	
10:30-10:45 10:45-11:00		Kocic: Math	ematical Mo	deling in Life	Sciences	Presentation	
11:00-11:15				Ŭ			
11:00-11:15							
11:30-11:45							
11:45-12:00				1			
12:00-12:15			1				
12:15-12:30				d Comerce to			
12:30-12:45		Perli	s: Groups an	a symmetry			
12:45:1:00							
1:00-1:15							
1:15-1:30						MNS	
1:30-1:45		D	avidson: Fou	rior Analysis		Presentation	
1:45-2:00				ner Anarysis			
2:00-2:15							
2:15-2:30			Refreshments		Refreshments		
2:30-2:45					_		
2:45-3:00					Markaharr		
3:00-3:15					Workshop:		
3:15-3:30					Preparing for		
3:30-3:45					Graduate School		
3:45-4:00					Prof. Leonard		
				-	Richardson		
4:00-4:15							
4:15-4:30							
4:30-4:45							
4:45-5:00							
5:00-5:15							
5:15-5:30							
3.13-3.30							

		2	010 Vigre REU	Summer Prog	ram Schedule		
				Week 4			
	27-Jun	28-Jun	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul
Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-8:45							
8:45-9:00							
9:00-9:15							
9:15-9:30		Mart	in: Analytic N	lumbor Theo			
9:30-9:45		IVIdit	in: Analytic N	umber meo	ir y		
9:45-10:00			r.				
10:00-10:15							
10:15-10:30							
10:30-10:45		Kocic: Math	ematical Mo	deling in Life	Sciences		
10:45-11:00							
11:00-11:15			1	1			
11:15-11:30 11:30-11:45							
11:45-12:00							
12:00-12:15							
12:15-12:30							
12:30-12:45		Perli	s: Groups and	d Symmetry			
12:45:1:00		-					
1:00-1:15							
1:15-1:30			n.				
1:30-1:45			avidson: Four	ior Analysia			
1:45-2:00		De	aviason: rour	ler Analysis			
2:00-2:15				_			
2:15-2:30			Refreshments		- Refreshments		
2:30-2:45			1				
2:45-3:00							
3:00-3:15							
3:15-3:30							
3:30-3:45							
3:45-4:00							
4:00-4:15							
4:15-4:30							
4:30-4:45							
4:45-5:00						L	
5:00-5:15							
5:15-5:30							
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		2	010 Vigre REU	Summer Progra	im Schedule		
				Week 5			
	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul
Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-8:45							
8:45-9:00							-
9:00-9:15							
9:15-9:30			Mortin, Analyti				
9:30-9:45			warun: Analyu	c Number Theory			
9:45-10:00							C 1 1 1
10:00-10:15						Project	Students mov
10:15-10:30						Presentations:	out of dorms
10:30-10:45			Kocic: Mathema	atical Modeling in			
10:45-11:00			Life S	ciences		to be scheduled	
11:00-11:15							
11:15-11:30							
11:30-11:45							
11:45-12:00							
12:00-12:15							
12:15-12:30			Perlis: Groups	and Symmetry			
12:30-12:45			rems. Groups	and Symmetry			
12:45:1:00		No Classes:		1			
1:00-1:15						_	
1:15-1:30		Independence Day					
1:30-1:45		Holiday	Davidson: Fo	ourier Analysis			
1:45-2:00			Davidson. re	Variel Analysis			
2:00-2:15				_		Project	
2:15-2:30			Refreshments		Refreshments		
2:30-2:45			nenconnenco		nenesiments	Presentations:	
2:45-3:00						to be scheduled	
3:00-3:15							
3:15-3:30							
3:30-3:45				1			
3:45-4:00							
4:00-4:15							
4:15-4:30							
4:30-4:45							
4:45-5:00							
5:00-5:15							
5:15-5:30							
5.15 5.56							

		Со	ourse Enrollm	ent		
	Addition of the other			Dehert Derlie	Mark Davidson	
	William Martin	Vlajko Kocic		Robert Perlis	Mark Davidson	
	<u>Undergraduates</u>	<u>Undergraduates</u>		Undergraduates	<u>Undergraduates</u>	
	James Boffenmyer	James Boffenmyer		Andrew Chapple	Andrew Chapple	
	Nicholas Cannady	Scott Dean		Nicholas Cannady	Savarnik Dixit	
	Taylor Collins	Lacey Fish		Taylor Collins	Fayez Karoji	
	Alfonso Creoze	Mel Lazo		Alfonso Creoze	Thomas Naugle	
	Lacey Fish	Andrew Stewart		Scott Dean	Tyler Otto	
	Tyler Otto	Casey Tsai		Brandon Reid	Gerard Williams	
	Andrew Williamson	cuscy rour		Fayez Karoji	Andrew Williamson	
				Mel Lazo		
	Willie Bell			Thomas Naugle		
	Hunter Merrill	Willie Bell		Andrew Stewart	Rachel Weyrens	
	Simeon Weatherby	Willam Bradford		Aaron Reaves	Terrence Tappin	
	Brandon Reid	Simeon Weatherby		Gerard Williams	Argen West	
	Argen West	Terrence Tappin		Rachel Weyrens	Tri Ngo	
	Suzette Lake	Savarnik Dixit		, William Bradford	Alysha Harbour	
	Tri Ngo	Suzette Lake		Hunter Merrill	, Thomas Coverson	
	Alysha Harbour	Aaron Reaves		Thomas Coverson	Casey Tsai	
				-		
	Graduates	Graduates		Graduates	Graduates	
	Dennis Hall	Matthew Dawson		Jesse Taylor	Matthew Dawson	
	Lisa Warsauer	Jesse Taylor		Lisa Warsauer	Joel Geiger	
	Trevor McGuire	Joel Geiger		Tyler Moss	Tyler Moss	
	Robert Viator	Robert Viator		Dennis Hall	Lokendra Singh	
		Lokendra Singh		Trevor McGuire		
	MNS	MNS		Math Circles	Math Circles	
	Group 1	Group 2		Group 1	Group 2	
	Andrew Chapple	Dean Scott		James Boffenmyer	Savarnik Dixit	
	Nicholas Cannady	Rayez Karoji		Taylor Collins	Thomas Naugle	
				Tyler Otto	Casey Tsai	
	A	Hunter Merrill		Rachel Weyrens	Terrence Tappin	
	Argen West	Tri Ngo		Brandon Reid	Alysha Harbour	
	Alfonso Creoze	Lacey Fish		Mel Lazo	Andrew Stewart	
	Gerard Williams Aaron Reaves	Andrew Williams Suzette Lake		Willie Bell	William Brandon	
	Adron Reaves	Suzette Lake		Thomas Coverson	Simeon Weatherby	
	1	1	I	1		L

1			Dr	oject Assignme	nto		
				oject Assignine	ints		
		Martin Project 1	Martin Project 2		Kocic Project 1	Kocic Project 2	
		Lisa Warshauer	Trevor McGuire		Jesse Taylor	Robert Viator	
		Andrew Williamson	Lacey Fish		Terrance Tappin	James Boffenmyer	
		Tri Ngo	Argen West		Simeon Weatherby	Scott Dean	
		Nick Cannady	Brandon Reid		Suzette Lake	Willie Bell	
		Nick Cannady	brandon Keld		William Bradford	Andrew Stewart	
		1				Anurew Stewart	
		Perlis Project 1	Perlis Project 2		Davidson Project 1	Davidson Project 2	
	1	Dennis Hall	Tyler Moss		Matthew Dawson	Joel Geiger/Lokendra	Singh
		Mhel Lazo	Thomas Naugle		Tyler Otto	Fayez Karoji	
		Alfonso Croeze	Gerald Williams		Alysha Harbour	Casey Tsai	
		Hunter Merrill	Aaron Reaves		Savarnik Dixit	Rachel Weyrens	
		Andrew Chaple	Taylor Collins		Thomas Coverson	Ruener weyrens	
		Andrew chapic	Taylor Collins		momas coverson		
	١٨/	orkshops					
	Loc	ckett 112					
	Tuesday, June 1	Saundra McGuire	mentoring		graduate students		
	Thursday , June 3	Mark Davidson	informational		graduate students an	d Instructors	
	Monday, June 7	Saundra McGuire	mentoring		All undergrads		
	Monday, June 7	Mark Davidson	LaTeX I		All undergrads		
	Wednesday, June 9	Mark Davidson	LaTeX II		All undergrads		
	Thursday, June 10	Saundra McGuire	Learning Strategies		All undergrads		
	Monday, June 14	Tam Nguyen	Excelling in Undergrad	duate Research	All Undergrads / 102	Allen Hall	
	Friday, June 18	Trevor McGuire Robert Viator	Beamer		All undergrads		
	Thursday, June 25	Leonard Richardson	Preparing for Graduat	te School	All undergrads		
	1	1	1	1	1	1	1

	treach Pro	ograms					
	Math Circle	es					
Tuesday, June 8		2:30-4:30	Perlis	Making Conjectures			
Frinday, June 11		2:30-4:30	Davidson	The Four Numbers G	ame		
Tuesday, June 1	5	2:30-4:30	William Martin	Russel, Godel, and th	e uncertainty of math	ematics	
Thursday, June	17	2:30-4:30	Vlajko Kocic	Frieze Patterns, Perio	dic Cycles, and Lyness	s' Equation	
	MNS						
Monday, June 1	4	2:30-5:00					
Tuesday, June 1	5	2:30-5:00					
Wednesday, Jur	e 16	2:30-5:00					
				Abstracts			
different trains	hat can be bui Four Numbers	It from cars of len Game: This 'gam	gth 1 or 2) we will joint ne' is simple but introdu	pp, with audience particip ly form conjectures, leadi uces many mathematical d	ng to a still-unsolved questions. As the gam	athematical proble e is played student	em. s will notice some patter
different trains Davidson, The and will be aske	hat can be bui Four Numbers d to make som	It from cars of len Game: This 'gan e conjectures and	gth 1 or 2) we will joint ne' is simple but introdu I provide proofs. Equiva	ly form conjectures, leadi uces many mathematical d alence of games will be in	ng to a still-unsolved questions. As the gam	athematical proble e is played student	em. s will notice some patter
different trains Davidson, The and will be aske in the backgrou	hat can be bui Four Numbers d to make som nd? How does	It from cars of len Game: This 'gan e conjectures and it help us? (The c	gth 1 or 2) we will joint ne' is simple but introdu I provide proofs. Equiva definition of a group wil	ly form conjectures, leadi uces many mathematical o alence of games will be in I be discussed).	ng to a still-unsolved questions. As the gam troduced. What are so	athematical proble e is played student ome invariants of th	em. s will notice some patter he game? Is there a grou
different trains Davidson, The and will be aske in the backgrou Martin, Russel	that can be bui Four Numbers d to make som nd? How does Godel, and the	It from cars of len Game: This 'gam e conjectures and it help us? (The d e uncertainty of m	gth 1 or 2) we will joint ne' is simple but introdu I provide proofs. Equivi definition of a group wil nathematics: This talk	ly form conjectures, leadi uces many mathematical alence of games will be in l be discussed). will discuss the foundatio	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl	athematical proble e is played student ome invariants of th uding Russell's grea	em. s will notice some patter he game? Is there a grou at work Principia
different trains Davidson, The and will be aske in the backgrou Martin, Russel Mathematica, ti	that can be bui Four Numbers d to make som nd? How does Godel, and the pe philosophica	It from cars of len Game: This 'gam e conjectures and it help us? (The c e uncertainty of m al views of Russell	gth 1 or 2) we will joint ne' is simple but introdu I provide proofs. Equivi definition of a group wil nathematics: This talk as well as that of the /I	ly form conjectures, leadi uces many mathematical a alence of games will be in I be discussed). will discuss the foundatio ntuitionists/, and the Göc	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl lel Incompleteness res	athematical proble e is played student ome invariants of th uding Russell's grea sults. I shall attemp	em. s will notice some patter he game? Is there a grou at work Principia ot to make intelligible the
different trains Davidson, The and will be aske in the backgrou Martin, Russel Gödel Incomple	that can be bui Four Numbers d to make som nd? How does Godel, and the philosophica teness Proof w	It from cars of len Game: This 'gan e conjectures and it help us? (The c e uncertainty of m al views of Russell hich established t	gth 1 or 2) we will joint ne' is simple but introdu I provide proofs. Equivi definition of a group will nathematics: This talk as well as that of the /I he any system of mathe	ly form conjectures, leadi uces many mathematical a lence of games will be in l be discussed). will discuss the foundatio ntuitionists/, and the Göc ematics rich enough to inc	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl lel Incompleteness res clude arithmetic is eith	athematical proble e is played student ome invariants of th uding Russell's grea sults. I shall attemp her inconsistent or	em. s will notice some patter he game? Is there a grou at work Principia of to make intelligible the incomplete. This theorer
different trains Davidson, The and will be aske in the backgrou Martin, Russel Gödel Incomple	that can be bui Four Numbers d to make som nd? How does Godel, and the philosophica teness Proof w	It from cars of len Game: This 'gan e conjectures and it help us? (The c e uncertainty of m al views of Russell hich established t	gth 1 or 2) we will joint ne' is simple but introdu I provide proofs. Equivi definition of a group will nathematics: This talk as well as that of the /I he any system of mathe	ly form conjectures, leadi uces many mathematical a alence of games will be in I be discussed). will discuss the foundatio ntuitionists/, and the Göc	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl lel Incompleteness res clude arithmetic is eith	athematical proble e is played student ome invariants of th uding Russell's grea sults. I shall attemp her inconsistent or	em. s will notice some patter he game? Is there a grou at work Principia of to make intelligible the incomplete. This theorer
different trains Davidson, The and will be aske in the backgrou Martin, Russel Gödel Incomple has far reaching	that can be bui Four Numbers d to make som d? How does Godel, and the philosophica teness Proof w consequences	It from cars of len Game: This 'gam e conjectures and it help us? (The d e uncertainty of m al views of Russell hich established t for one attemptin	gth 1 or 2) we will joint ne' is simple but introdu l provide proofs. Equiv- lefinition of a group wil nathematics: This talk as well as that of the /I he any system of math- ng a comprehensive un	ly form conjectures, leadi uces many mathematical d alence of games will be in l be discussed). will discuss the foundatio ntuitionists/, and the Göo ematics rich enough to in derstand of mathematics	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl lel Incompleteness re- clude arithmetic is eitt and its place in the ep	athematical proble e is played student ome invariants of th uding Russell's grea sults. I shall attemp her inconsistent or pistemology of idea	em. s will notice some patter he game? Is there a grou at work Principia t to make intelligible the incomplete. This theorer s.
different trains Davidson, The and will be aske in the backgrou Martin, Russel Gödel Incomple has far reaching Kocic, Frieze Pa	that can be bui Four Numbers d to make som nd? How does Godel, and the philosophica teness Proof w consequences tterns, Periodia	It from cars of len Game: This 'gam e conjectures and it help us? (The d e uncertainty of m al views of Russell hich established t for one attemptin c Cycles, and Lyne	gth 1 or 2) we will joint ne' is simple but introdu l provide proofs. Equivi- definition of a group will nathematics: This talk as well as that of the /I he any system of math- ng a comprehensive un ss' Equation : This is h	ly form conjectures, leadi uces many mathematical d alence of games will be in l be discussed). will discuss the foundatio ntuitionists/, and the Göc ematics rich enough to in derstand of mathematics nands-on workshop. Sever	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl lel Incompleteness re- clude arithmetic is eith and its place in the ep n types of frieze patter	athematical proble e is played student ome invariants of th uding Russell's grea sults. I shall attemp her inconsistent or pistemology of idea rns and their symm	em. s will notice some patter he game? Is there a grou at work Principia t to make intelligible the incomplete. This theorer s.
different trains Davidson, The and will be aske in the backgrou Martin, Russel Gödel Incomple has far reaching Kocic, Frieze Pa	that can be bui Four Numbers d to make som nd? How does Godel, and the philosophica teness Proof w consequences tterns, Periodia	It from cars of len Game: This 'gam e conjectures and it help us? (The d e uncertainty of m al views of Russell hich established t for one attemptin c Cycles, and Lyne	gth 1 or 2) we will joint ne' is simple but introdu l provide proofs. Equivi- definition of a group will nathematics: This talk as well as that of the /I he any system of math- ng a comprehensive un ss' Equation : This is h	ly form conjectures, leadi uces many mathematical d alence of games will be in l be discussed). will discuss the foundatio ntuitionists/, and the Göo ematics rich enough to in derstand of mathematics	ng to a still-unsolved questions. As the gam troduced. What are so n of mathematics incl lel Incompleteness re- clude arithmetic is eith and its place in the ep n types of frieze patter	athematical proble e is played student ome invariants of th uding Russell's grea sults. I shall attemp her inconsistent or pistemology of idea rns and their symm	em. s will notice some patter he game? Is there a grou at work Principia t to make intelligible the incomplete. This theorer s.
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