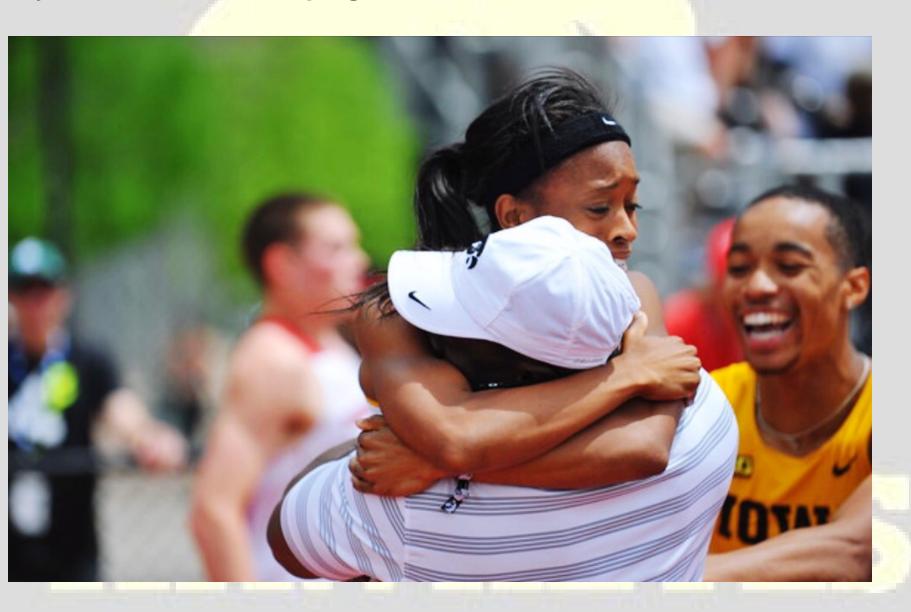
CLIVE ROBERTS-UNIVERSITY OF IOWA

My Evolution of Developing the 400m runner



MUCH THANKS TO SO MANY

Freddy Andrade-Body Mind and Speed

Dave Hunt-University of Toronto

Todd Lane-LSU

Joey Woody-Director of Track and Field University of Iowa

Wiz-University of Iowa (RET)

Gabe Saunders-Stanford University

Steve Rajewsky-University of Michigan

Jim Knapp, Craig Fuller-Central Michigan University

Landon Evans-University of Iowa Strength Conditioning

Scott Cappos, Layne Anderson, Jason Wakenight, Molly Jones, Andrew Dubs, Kate See

Athletes that I've coached

MY BACKGROUND/FOUNDATION

Canadian background

Where I learned how to put together a program

Sprint background

Learned the importance of speed

2nd Big Ten Championships

Realized that my student athletes were not as fit as I thought



THE EARLY YEARS

Microcycle Planner Period: Preparation			Microcycle 19-22	November 5-26		
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
WJ-800n	WJ-800m	WJ-800 Gold	WJ-800 Purple	WJ-800 Purple	WJ-800-Gold	
Hmob-carsons 2*6	Hmob walker *8 Superman	DF*A*45m	DF-Cx10	DF-A-45m	DF-C-45m	
	scramble*30sec/					
4*15 bound	0m	SP-C-45m	SP-Bx45 Pedestal swiss ball*30	SP-C-45m	SP-B-45m	
Acc devel	Pedestal *30sec	Fly sprints:	sec	Speed Development	BU-4*50m	
contrast leds 30m		25accel+20m	7 - 7 - 7 - 7 - 7	90 sprint-Float-Sprint		
(5,6,7,4)	Sand walks	fly(7,9,10,5)	GS-Lane w/MB*20 Special walk series	(3,4,5,2)	TI 250,3*200,150	
MB-Hoffa- 5,6,7,4	CD-	CD-Western	*2(20m)	CD-Western	Week 1 250,3*200,3*1	
CD-Akron			CD-		50 Week 2	
		200			2*250, 3*200,	
	-				3*150 Week 3	
					250,2*200,3*1	
				The same of	50 Week 4	
	A 1				GS-Incredible	
					Hulk	
	7			- 11	CD-Akron	

WHAT DID I LEARN?

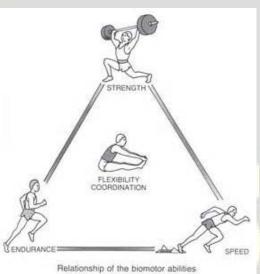
- Philosophy
 - Personal
 - Athletic
- Develop a clear system of trust with your athletes
 - Buy in is key
- Get them fit DAWG!

MY COACHING PHILOSOPHY

- Constantly develop the Bio-motor Abilities and Rest
- Master the Basics
- Understand the requirements of the event







WHAT ARE THE BIO-MOTOR ABILITIES

Speed

Acceleration

Maximum Speed

STRENGTH

- Absolute Strength
- Maximum Strength
- Relative Strength
- Power
- Strength Endurance
- Special Strength
- Specific Strength
- General Strength

SKILL

General

Event Specific

SUPPLENESS

Static

Dynamic

IOWA HAWKEYES

STAMINA

Increase Event specific Endurance

Ability to sustain work



Complete Rest

Massage

EMS

IOWA HAWKEYES



THE IMPORTANCE OF MENTORSHIP





MACROCYCLE CONSIDERATIONS

- -Will it be one peak season or a double peak season?
- -Will there be interruption from indoor to outdoor?
- -Are there any past injury concerns?
- -What is the psychological profile of the student athlete that I'm working with?
- -What is the training age of the student- athlete?
- -Where does the student- athlete stand academically?

ENERGY SYSTEM DISTRIBUTION

ENERGY SYSTEM TRAINING BREAKDOWN FOR SPRINT AND HURDLE EVENTS

Terminology	Length of Run	Component	Energy System	% of Predicted Performance	Rest Interval Between Reps/Sets	Daily Volume Ranges 100/200/ 110/100mH	Daily Volume Ranges 400/400mH
ABSOLUTE SPEED	20-80m	Speed (s) Anaerobic power	Anaerobic Alactic	90-95% 95 - 100%	3-5 / 6-8 min 3-5 / 6-8 min	300-800m 300-500m	300-900m 300-600m
SPEED ENDURANCE	50-80m	Alactic Short Speed End. (ASSE)	Anaerobic Alactic	90 - 95% 95 - 100%	1-2 / 5-7 min 2-3 /7-10 min	300-800m 300-800m	600-1200m 600-1200m
SPEED ENDURANCE	80m	Glycolytic Short Speed End. (GSSE)	Anaerobic Glycolyte	90 - 95% 95 - 100%	1 / 3 min 1 / 4 min	300-800m 300-800m	600-1200m 600-1200m
SPEED ENDURANCE	0-150m	Speed Endurance (SE)	Anaerobic Glycolyte	90 - 95% 95 - 100%	5 - 6 min 6 - 10 min	300-900m 300-600m	400-1000m 400-800m
SPECIAL ENDURANCE I	150-300m	Long Speed Endurance (LSE)	Anaerobic Glycolyte	90 - 95% 95 - 100%	10 - 12 min 12 - 15 min	600-900m 300-900m	600-1200m 300-1000m
SPECIAL ENDURANCE II	300-600m	Lactic Tolerance (LAT)	Lactic Acid Tolerance	90 - 95% 95 - 100%	15 - 20 min Full	300-600m 300-600m	900-1200m 300-900m
INTENSIVE TEMPO	100-600m	Anaerobic Capacity (ANC)	Mixed: Aerobic Anaerobic	80 - 89%	30s - 5 / 3-10 min	800-1800m	1000-2800m
EXTENSIVE TEMPO	200-800m 100-200m	Aerobic Capacity (AC)	Aerobic Aerobic	40 - 79% 60 - 79%	45 - 2 min 30s / 2-3 min	1400-2500m 1400-1800m	2400-4000m 1800-3000m
CONTINUOUS TEMPO	1600-6400m	Aerobic (AC)	Aerobic	40 - 60%	Heart Rate 130-150	1600-3200m	3200-6400m

PROGRESSION ?????

General to Specific

Training will go from general activities to specific activities

Simple to Complex

Simple activities to more complex activities

Capacity to Power

Greater capacity will lead to greater expression of power

ENDS TO MIDDLE DEVELOPMENT

Hills, Sleds, Line Drills, Blocks: 10-30m

Speed

Flying runs, Assisted runs, In and Outs, Wicket drill: 30-60m

Speed Development

120 (40 sprint float sprint) Repetition runs: 60-150m

Special Endurance 1

300-600m

Special Endurance 2

Circuit training, reps of 200: 200-400m

Tempo Extensive

ANNUAL PLAN

																						ď	El	ex	is	Gı	ıs	te	r				Ī								ı					Ī							
Female Developing 400 Hurdles/400m Runner																			prin	nar	y ev	en	t wi	ll be	10		400)m a	at c	onfe	ren	се																	Coac 1 400				
Macrocycle Focus		lr	npro	ove	hu	dle	effi	cier	псу	to i	incr	eas	e 40	0Н	peri	forn	nand	ce:	со	orc	lina	tior	ı / ir	ncre	ease	ed h	urd	dling	g vo	olum	ne w	vith	bot	h le	gs t	thro	ough	dri	lls a	ınd	rep	oetit	ion	sstr	en	gth	and	l po	wer				
Injuries														i							На	mst	tring	g in	juri	es/V	Vill	do	FM	S to	ass	ses	s ne	eds	5																		
Biomotor Abilities			s	PE	ΕD					ST	REI	NGT	Н				s	Star	nina	a					Sup	pler	nes	ss					Sk	cill						TE	STI	NG				Ade		onal utriti	Foci on	JS:			
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Week		1	2 ;	3	4	5 6	7	8	9	10	11	12	13 1	4 15	16	17	18	19	20	21	22	23	24	25	26 2	27 28	3 2	9 3	0 3	1 32	33	34	35	36	37	38	39 4	0 4	11	42	43	44	15 4	6 4	7 4	48							
Microcycle		1	2 ;	3	4	5 6	7	8	1	2	3	4	1	2 3	4	5	1	2	3	1	2	3	1	2	3	4 5	1	1 2	2 3	3 4	1	2	3	4	1	2	3 1	:	2	3	4												
Important Dates	Class Begins				lesting			Testing				Testing		ıntrasquad		Christmas			lowa open	Jack Johnson	Iowa State	Nebraska	Cyclone	lowa inv	Champs	Last Chance		Arkonoon	Arkansas Sun Angel	odii Aiigei	Mt.Sac	Drake	Musco	1	Champs		NC first round		NC Finals		US Champs												

General Preparation Period

- Speed: Sprint related drills, acceleration mechanics, sand runs, sled pulls, hill runs
- <u>Strength</u>: Proper lifting technique, circuit training, general strength, jumping power
- Skill: General, Sprint Drills
- Suppleness: Static, Dynamic
- Stamina: Aerobic Capacity and Aerobic Power

GENERAL PREP EXAMPLE

WHZ-Tria MHZ-Klyvens, Kerry, Peter, Mat	t				(1)	
Microcycle Planner						
Period: Preparation Sprints//Jumpers	Phase: General Prep	Mesocycle: 1	Microcycle 5			
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
ivionacy	rucsuuy	Veunesday	Ankle mobility(Alphabet,	ITIMAY	Saturday	Complete
Warm up-1200m jog	Warm up-1000m jog	Warm up- TBA	band)	Hill Warm up-TBA	Warm up-TBA	Rest
HB+TAL+TAH+DFA+DFD	HA+TAL+DFA+DFD+HM	1	Warm up 1200 jog	Sprint Prep-		1.000
Sprints Prep	Sprints Prep	Ncaa Day off	HB+TAL+TAH+DFA+DFD	Ankle, Shin, Knee (20m)	Circuit	
- р	Askip,Arun, Cont Fast	, , , , , ,		, , , , , , , , , , , , , , , , , , , ,	Ephesians scramble in	
Ankling,Shin, Knee	leg,	Encourage to warm up	Sprint Prep	The second second	sand	
3, ,			Askip, Arun, Cont fast, DB			
Mutli Throw	DB fast, SLB	Pedestal*2*20	fast, SLB	General Circuit	Timothy 2(45ea)	
OHB/BLF/Sq chest pass 2*8				Phillipians/Collosians *15sec		
	Multi Jump		Multi Trhow-			
G1+G2-Wickets *3-5(12spt)	Amos*10*2		Romans series *8	G1-		
				2(5*150Hill) RI=jog back/5		
G1-			TW W 10	minutes		
10*200 w/circuit	G1/G2		Mutli Jump			
(push up, hip thrust, Sit ups)	MaxV Drill*3(12)		HFH,HFD, Rrjump *10 (2?)	G2-		
		100		2*(4*250 Hill) RI=jog back/5		
G2-	5*Ladder(12.1,11.9)			minutes		
3(2-6-2)//3*150 @ 35, 2:00, 35	4-6* cotnrast runs		and the second			
RI=circuit	(sled/free)		G1/G2			
- 0 - 000	70 0		Wicket*3		- 7	
o action addition	100	The sales	6*20sp, 6*30sp,	the state of the		
100			6*full(combo)	- T	100	
AM-Lift 6:30	PM-Lift 4:00pm		6*push in weight room	100		
Bodybuilding	High				The state of the s	
	The same of the sa		PM-Lift 4:00pm		10 10	
Cool Down	Cool Down	Cool Down	High			
			Cool Down	Cool Down	Cool down	

GPP ACCUMULATION PHASE

			IGHT CHART	Power Power Ba	r Hang Hang Hang : ack Squ ont Squ RDL it Shar	Clean Snatch Jat Jat	#N/A #N/A	#N/A #N/A #N/A #N/A	#N/A #N/A #N/A #N/A	#N/A #N/A #N/A #N/A #N/A	#N/A #N/A #N/A #N/A #N/A	#N/A : #N/A : #N/A : #N/A : #N/A :	#N/A #N/A #N/A #N/A	#N/A #N/A #N/A #N/A #N/A	#N/A #N/A #N/A #N/A	#N/A #N/A #N/A #N/A	TRAINING MAXES Power Hang Clean Power Hang Snatch Back Squat Front Squat RDL Pit Shark	#N/A #N/A #N/A #N/A #N/A #N/A		ERIO		G	L 20: PP 3	15		TH	E UN TR	ACK	(&)	3(31		VA
			W		Step-U	P	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Step-Up	#N/A	EM	PHAS	is	ACCUN	IULA	TION				#	N/A	A		
WEEK OF		WEE	K 1		SES	(0)(S)	A EK 2			WEE	КЗ			WEE	K4		WEEK OF		WEE	K1		SESS	WEE				WEE	(3			WEE	К4
XERCISE	96	WT I	REPS	RPE	96	WT	REPS	RPE	96	wt	REPS	RPE	96	wT	REPS	RPE	EXERCISE	96	wr	REPS	RPE	96	wT	REPS	RPE	9/n	WT F	REPS	RPE	9/6	wT	REP
B JUMP SQUAT	1.2		5				5		-7-2		5				5		DL JUMP TO SL LAND	1.2		3				3				3				3
ax height jump																	Moderate effort jump															
mphasize hip/knee timing																	Hold MB at chest															
ANG CLEAN	55%		4		60%		4		65%		3		70%		2-3		BLOCK POWER CLEAN	50%		3		55%		3		60%		2		65%		2
stch deep	55% 55%		4	\dashv	60%		4		65% 65%		3		70% 70%	\dashv	2-3	\vdash	MID THIGH	50%		3		55% 55%	\dashv	3	\dashv	60% 60%	\rightarrow	2	\dashv	63% 63%	\dashv	2
NONT SQUAT	40%	+	5	-	40%	-	s		40%	\vdash	s	\rightarrow	4996	-	5	-	SINGLE LEG SQUAT	-			\rightarrow	\rightarrow	-	xS	-	-	\rightarrow	xS	\dashv		-	264
eek 2-4: TEMPO: 6010	90%	 	4		50%		4		5056		4		55%		4	-	TEMPO: 6010	VEL	OCITY P		ON -	\rightarrow		xS			\rightarrow	xS	_		-	25
E. 2 10 PO. 0010	60%	 	3	-	60%		3		60%		3	-	63%	-	3	-	Last set is RPE 9-10	\dashv	BACKS	QUAT	- 1	\rightarrow			9 to 10	\rightarrow	-+	xS xS	-		-	29
	1 3078	 	-	-	70%		2		70%		2	_	79%	_	2	-	Record weights!				\rightarrow	\rightarrow		~=			\rightarrow	xS 5	9 to 10		-	24
	1	 	\rightarrow	-	65%		5x5		7956		1	_	80%	_	1	-	Pelvis neutral, no coming up	-		-	\rightarrow	+					+	~			-	A-1
					0376		-		70%		Sx4	_	75%		4x3		rems neutra, no coning op				\equiv	_						_				
CK EXT TO DB ROW			1×10				3x10				3x10				3x10		BACK EXTENSIONS			1x6	\exists			3x6				3x6				Зxt
	\vdash		-		_						-	\rightarrow	\rightarrow			-	TEMPO: 6010	+		-	\dashv	\rightarrow			\dashv		-	+	\dashv		-	
VERSE HYPER			1x10				3x10				3x10				3x10		SA DB MILITARY PRESS			1x8				хß				x8				хB
ni band around ankle			-									_					TEMPO: 3010				\dashv	-			-			-	-			
NT KNEE REVERSE HYPER ther or Band around knee			1x10				3x10				3x10	_			3x10		ISO KNEELING LEAN BACK			1x30s	_	_		3x30s			- 1	3x4Ss				3x45
area or bend around wree																	ISO SUPINE HAMSTRING			1x30s	\Rightarrow			3x30s			- 1	3x49s				3x45
D KNEELING LEAN BACK			2/30s				3x30s				3x45s				3::45s		Weeks 1-2: 90/90 Weeks 3-4: 90/135				\dashv											
O SUPINE HAMSTRING			2:30s				3x30s				3x45s	-	-		3x45s					-	\dashv	\dashv			-		_	-	\dashv		-	
eks 1-2: 90/90																					=							_				
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SPECIFIC PREPARATION

- Speed: Acceleration mechanics, block starts, in & out runs
- <u>Strength</u>: Maximum Strength, General Strength
- Skill: Event Specific Drills
- <u>Suppleness</u>: less emphasis on static stretching
- <u>Stamina</u>: Anaerobic Capacity, Aerobic Power, Specific Endurance

SPECIFIC PREPARATION EXAMPLE

Group 1-Lake, Brittany, Taylor, Jalynn

WHZ-Tria						
MHZ-Klyvens, Kerry, Peter, Matt						
Microcycle Planner						
Period: Preparation	Phase: Specific Prep 1	Mesocycle : 2	Microcycle 9			
Sprints//Jumpers						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Warm up-Ankle	Warm up-Ankle				Complete
Warm up-Ankle mob/1200m jog	mob/1000m jog	mob/1200m jog	Warm up- Ankle mob/1200m	Warm up-Ankle mob/1000m	Warm up-TBA	Rest
HB+TAL+DFA+DFB	TAL +TAH+ DFA+DFD	TAL+DFA+DFC	TAL+DFA+DFC	TAL+DFA+DFC		
prints Prep 2*25m	Sprints Prep 2*25	Sprint Prep 2*25m	Sprint Prep	Sprint Prep 2*25m		
Askip, Arun, Bskip, Double A, Power	Amarch, Double A, Bward	Askip, Arun, Bskip, Brun,				
skip, ankling,SLB	run	Double A	Askip, Arun, Bskip,Brun, Double A	Askip, Arun, Bskip,Brun, Double A	G1/G2	
	Butt kicks knee in front,					
Multi Jump	ankle	Power skip, ankling, SLB	Power skip, ankling, SLB	Power skip, ankling, SLB	20 minute Bike	
2*10 bunny hops/SLJ*8, STJ*6	Shin, Knee				Daniel 20ea	
G1/G2	Multi Throw	G1	G1-	G1-		
			400	Multi Jump*3-5*Hurdle		
MaxV wickets*18*3	Daniel (20ea)	MaxV wicket*18*3	Pool/Pedestal*20sec	hops(24/26 inch)		
				2sets (2 resistance runs 20m/ 4		
5*18 Accel Ladder(11.9/11.7)		2*450, 2*350	Band walk series*20m	point start)		
1*BK intro/ 2*20+20fly	G1		Ankle series	2*20+20fly		
	Ephesians scramle					
	20m/20sec	G2-		4*4*60m		
	Pedestal *20/Band series	Pool/Pedestal*20sec	G2-			
			Multi Jump*3-5*Hurdle			
	special walk series	Band walk series*20m	hops(24/26 inch)	G2-		
			2sets (2 resistance runs 20m/14			
		Ankle series	point start)	10*200 @32 RI=32 rest		
	G2		2*20+20fly	6* carver stadiums		
AM-Lift 6:30	MaxV wickets 18*3					
	4*400+200@65-68		3*300 (in flats) Fast faster Fastest			
High	(60sec/5minutes)		RI=4			
	4*60m push					
			PM= Lift 4:00pm (G2)			
	PM-=Lift 4:00pm (just G2)	PM=Lift 4:00pm (G1)		the state of the sale		
		(32)	Cool Down	Cool Down		
Cool down	Cool Down	Cool Down	G2 cool down after weights	ТВА		
	Static Stretch/Ems		and the second			
Hurdle mobility+Green Band Series	Recovery	Eldoa Series (G2 only)		10000		

CURRENT'S YEAR MAX STRENGTH PHASE

COACH ROBERTS PHASE 3 MAX STRENGTH FOCUS

	Week 1	Week 2	Week 3	Week 4 (Pre-Thx)
	Bodyweight	Bodyweight	Bodyweight	Bodyweight
	Warm-Up	Warm-Up	Warm-Up	Warn-Up
	20kg Vertical Jump (Gymaware) - 3 jumps	3 Jumps	3 Jumps	3 Jumps
	MB Rotational Shot Throw: 2x6	2x6	2×6	1x6
	MB Scoop Throw: 2x6	2x6	2×6	1x6
	A1) Clean (from blocks): 75%:5x2	80%:5x1	80%:5x1	70%:5x1
Monday	B1) Leaning Tower (4D Trainer): 2x15	3x15	3x15	2x15
	B2) Leaning Tower w/ Hip Ext: 2x10	3x10	3x10	2x10
	B3) Supine SL Plank w/ MB Throw: 2x10	3x10	3x10	2x10
	C1) Iso Ham (135/90): 1x30s	1x30s	1x30s	N/A
	C2) Iso Big Toe Raise: 1x30s	1x30s	1x30s	N/A
	C3) Iso Bulgarian Split Squat: 1x30s	1x30s	1x30s	N/A
	AG: DB Jumps (15lbs each hand): 5x6 LH: Pit Shark Dynamic Squat: 185lbs: 5x3			
	A1) Jump Squats: 15%: 5x8	20%: 4x6	20%; 4x6	20kg: 2x3x8
	A2) Horizontal Dynamic Step-ups to Pad: 5x3	4x3	4x3	2x3x5
	B1) Deadlifts (3 blocks): 90% of Clean: (3010): 4x3	100%: 3x3	100%: 3x3	N/A
	B2) Barbell Bench Press: (3010): 4x4	5-10+lbs, 3x4	5-10+lbs, 3x4	5-10+lbs, 2x3
Vednesday	C1) Double Leg Hip Bridge (bands): 4x6	3x6	3x6	2x6
	C2) A/P and P/A Dorsiflexion: 4x8	3x8	3x8	2x8
	EMS: Max Strength: 3 minutes on TMG muscles	5 minutes	5 minutes	5 minutes
	Group 1/2: 80% of clean: 4x5	Group 1/2: 90% of clean: 3x5	3x5	
	A1) Eccentric Back Squat: 90%: 4x3	95%: 4x2	100%:3x2	N/A
	A2) Box Jumps: 4x3	4x3	3x2	5x3
	B1) Chin-Ups: 4x5	3x5	3x5	3x5
	B2) FWD Leaning Toward to Box w/ Bands: 4x5	3x5	3x5	3x5
Friday	C1) Iso Ham (135/90): 1x30s	1x30s	1x30s	1x30s
	C2) Iso Big Toe Raise: 1x30s	1x30s	1x30s	1x30s
	C3) Iso Bulgarian Split Squat: 1x30s	1x30s	1x30s	1x30s
	EMS: Max Strength: 5 minutes on TMG muscles	5 minutes	5 minutes	5 minutes
	BB/JL: Pit Shark LH: 2 sets back squat, 2 sets pull-through			
	Group 1/2: 80%:4x3	Group 1/2: 80%:3x3	Group 1/2: 85%:2x2	

PRE-COMPETITION/COMPETITION

- Speed: Blocks 20m-60m, runs from 30m-60m from stand, 3 point or fly
- Strength: Maintenance, Power, General Strength
- Suppleness: Dynamic Flexibility
- <u>Stamina</u>: Speed Endurance, Lactate Tolerance,
 Race Tactics, Anaerobic Capacity

PRE COMPETITION EXAMPLE

Group 1-Lake, Brittany, Taylor, Jalynn Group 2, Elexis, Briana, Alexis H, Alexis G, Lydia WHZ-Tria

MHZ-Klyvens, Kerry, Peter, Matt

Microcycle Planner						
Period: Preparation	Phase: Pre-Competition	Mesocycle : 2	Microcycle 18	Year 2014		
Sprints//Jumpers	1					
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Warm up-Ankle mob/1000n					Complete
Warm up-Ankle mob/1200m jog	jog	mob/1200m jog	Warm up- Ankle mob/1200m	Warm up-Ankle mob/1000m	Warm up-TBA	Rest
HB+TAL+DFA+DFB	TAL +TAH+ DFA+DFD	TAL+DFA+DFC	TAL+DFA+DFC	TAL+DFA+DFC		
Sprints Prep 2*25m	Sprints Prep 2*25	Sprint Prep 2*25m	Sprint Prep	Sprint Prep 2*25m		
Askip, Arun, Bskip, Double A, Power skip,		Askip, Arun, Bskip, Brun,				
ankling,SLB	run	Double A	Askip, Arun, Bskip,Brun, Double A	Askip, Arun, Bskip,Brun, Double A	G1/G2	
Multi Jump-All Groups	Butt kicks knee in front, ankle	Power skip, ankling, SLB	Power skip, ankling, SLB	Power skip, ankling, SLB	Complete Rest	
SLJ/STJ*4-6	Shin, Knee	i ower skip, ankling, seb	ower skip, anking, seb	ower skip, anking, seb	Complete Nest	
G1	Multi Throw	G1	61	61	100	
			G1-	G1-		
Accel Ladder*5*20 st (11.7/11.9)	Daniel (20ea)	4*5Hhops+accel	20 bike	Accel Ladder*5	-	
4-6*40m BKs	17.47	4*250 RI=6	phillippians 2*20//Pedestal 2*20	2*20,2*30, 2*40 on curve		
300-400m Hardway RI=1 minute	G1		Ankle series	Multi Throw-OHB, BLF* 2*5		
	Ephesians scramle 20m/20sec	G2-				
63						
G2	Timothy 2 (2*30ea)	30 minute jog	G2- cal Multi Jump*3-5*Hurdle hops(24/26			
Accel Ladder*5*20 st (11.7/11.9)	special walk series	2*20	inch)	G2-		
2*40BK, 3*60BK, 2*90 curve		Ankle series	2-4*20+20fly	Wicket*3		
,	G2	r millio del red	20.20,	2*300+ 4(walk 50 Run 50)		
AM-Lift 7:00am	MaxV wickets 18*3	10000		Full Recovery		
	200,400,600,400,200			r dir Recovery		
High I						
	4*60push		A. Albanda			
	PM-=Lift 4:00pm(G2)	PM=Lift 4:00pm (G1)	-			
		in the noopin (G1)	Cool Down	Cool Down		
Cool down	Cool Down	Cool Down	G2 cool down after weights	ТВА		
Hurdle mobility+Green Band Series	Static Stretch/Ems Recovery			THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUM		
Tarde modificy Green Band Series	Static Stretchy Emis Necovery	Elada Series (G2 offly)				
T-T-T	I	LAL				

COMPETITION EXAMPLE

	Group 1-Lake, Brittany						
	Group 2, Elexis, Alexis H,						
	WHZ-Zinnia, Carisa MHZ-Klyvens, Kerry, Peter, Matt	÷	1				
	Microcycle Planner Period: Preparation Sprints//Jumpers	Phase: Specific Prep 1	Mesocycle : 2	Microcycle 9			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Warm up G1-acceleration lines*5//Hand offs *4	Warm up G1-Acceleration ladder *5	G1-G2 20 minute Jog	G1-200 focus Acceleration Ladder*5/Hand offs *4	Travel Day We will stop at the Univ. of Illinois	Pre Meet	Big Ten Championships Brittany Brown 4*1/100/200	Big Ten Championships
6*200 28-30	BK-30m*4	Timothy 2 (2*20)//Colossians 2*20	Technique starts	Hydrate Well	Warm uip walk through	Lake Kwaza4*1/ 100/200	Brittany Brown 100/200/4*1 Lake Kwaza
RI=4-5'	50,50,150,50,50		4*starts	100	-	Elexis Guster 4*1/400 Montayla Holder	
G2/G2H	they looked great	G3	G2-	Shake out at hotel	G1	4*1/400mH Alexis Hernandez-	Elexis Guster 400/4*1/4*4 Montayla Holder
3*Completion runs	RI=Full recovery 12-15'	30 minute run Timothy 2	3*completion runs		4*20BK	4*1/400	400mH/4*1/4*4 Alexis Hernandez-
500,2(3*60)	G2/G2H	(2*20)//Colossians 2*20	Hand offs *4	Hurdle Mobility		Mahnee Watts-800	400/4*1/4*4
	Acceleration Ladder*5	Or Complete Day Off Your	2-3*100 flys	5*10H alt Leg walkovers	G2	Adrianne Alexia -800	Mahnee Watts-800/4*4
	2*1H,1*5H,2*2H	choice			4*20BK	Sarah Ryan-LJ	Adrianne Alexia -800/4*4
	2*2*150@ RI=6			Roll out	3*100 @80	Zinnia Miller-LJ	Zinnia Miller-TJ
	Guster just did fire drill					Carisa Leacock-LJ	Carisa Leacock-TJ
						KD/KD/Tunde	Tunde Amosu-TJ
						Pre-Meet	Kerry Dean-TJ
	13.17	10.00					Klyvens Delaunay TJ
Cool down Hurdle mobility+Green Band	Cool down	Cool Down Static Stretch/Ems	Cool Down	Cool Down G2 cool down after	4 4	AL IL	
Series	Band Series	Recovery	Eldoa Series (G2 only)	weights			

WARM UP INVENTORY



UNIVERSITY OF IOWA TRACK & FIELD WARM-UP INVENTORY

Phase 1	Heat A (HA)	Heat B (HB)	Torso Activation Low (TAL)	Torso Activation High (TAH)
1	Jog/Skip 400m	Jog/Skip (FWD/BWD) 400m	Kneeling Rock Back Breathing	Side-Lying Unsupported Clam
2	Jumping Jacks	Arms Up Jacks	Cat Camel	Side Elbow Plank - Dynamic
3	Seal Jacks	Scissor Jacks	Allah Arch	Prone Plank with Hip Extension
4	Cross Jacks		Cobra Downward Facing Dog	Side Elbow Plank with Leg Lift
5			Side Lying Alligator	Quad Nordic
6			Side Lying Leg Lift	Prone Elbow Push-Up
Phase 2	In Place Flex A (DFA)	Dynamic Flex B (DFB)	Dynamic Flex C (DFC)	Dynamic Flex D (DFD)
1	Neck F/B/L/R/StoS	Leg Swings - Frontal	Leg Swings - Frontal	Leg Swings - Frontal
2	Arm Circles/Swings	Leg Swings - Sagittal	Leg Swings - Sagittal	Leg Swings - Sagittal
3	Hip Circles	Trail Leg Windmill	Trail Leg Windmill	Trail Leg Windmill
4	Side Bend	Eagles - Prone	Eagles - Prone	Eagles - Prone
5	Knee Circles	Eagles - Supine	Eagles - Supine	Eagles - Supine
6	Lunge Ankle Rolls	Hurdle Seat Exchange	Donkey Kicks	Mini-Band Forward Walks
7	Supine 90/90 Hamstring	Inverted Bicycle	Leg Whips	Mini-Band Backward Walks
8	Kneeling Glute Stretch	Wide Stance Hip Circles	Lunge Exchange	Mini-Band Lateral Walks
9	Kneeling Groin Rock	Walking on Toes then Heels	Lateral Walk on Toes then Heels	Mini-Band Diagnoal Forward Walks
10	Kneeling Hip Flexor Rock w/ Hip IR	Carioca Walk on Toes	Forward Lunge w/ Quad Stretch	Mini-Band Diagnoal Backward Walks
11	Supine Hip Bridge	Carioca Lunge Walk	Forward Spiderman	
12	Worldest Greatest	Reverse Lunge w/ Backward Reach	Forward Diagnoal Spiderman	
Phase 3	General Agility Series (GAS)	Hurdle Mobility (HM)	COACH DRILLS	COACH DRILLS
1	Double Leg Square Shuffle	Hurdle Walkover (alt lead leg)		
2	Stork Hops on Line (10-20m)	Hurdle Walkover (const lead leg)		
3	Lateral Stork Hops	Lateral Alt Leg Skip (Str Leg)		
4	180 Deg Jump Turns	Lateral Alt Leg Skip (Flexed leg)		
5	360 Deg Jump Turns	Over Under (L-Over, R-Over)		
6	90 Deg Stork Turns	Over Under (R-Over, L-Over)		
7	Side Shuffle Vertical Jumps	Hurdle Walkover Skip (alt lead Leg)		
8	Single Leg Square Shuffle	Hurdle Walkover Skip (const lead leg)		
9				
10				
11				
12				

COOL DOWN INVENTORY



UNIVERSITY OF IOWA TRACK & FIELD COOL-DOWN INVENTORY

Phase 1	Dyna	amic A	Dyna	mic B						
1	Forward Sk	ip w/ Alt Arms	Leg Swin	gs Frontal						
2	Backward Sk	tip w/ Dbl Arms	Leg Swin	gs Sagittal						
3	Ea	igles	Arm	Seals						
4		rpions	Arm Flexio	n/Extension						
Phase 2	Soft Tissue Hip	Soft Tissue Upper Leg	Soft Tissue Lower Leg	Soft Tissue Upper						
1	DT TFL	FR Quadriceps	DT Shin	DT Supine Arm Angels						
2	DT Upper Glute	FR Groin Squeeze w/ Flex/Ext	DT Calf 1	DT Side Lying Sh ER/IR						
3	DT Piriformis	ORB Groin Squeeze w/ Flex/Ext	DT Calf 2	DT Prone Biceps						
4		DT Seated Hamstring w/ Flex/Ext	DT or TB Foot	DT Triceps						
5				TB Upper Trap Bridge w/ Sh Flex						
Phase 3	Low Back/Hip/Leg 1	Low Back/Hip/Leg 2	Lower Leg/Ankle	Upper Mobs/Stretches						
1	A/P Standing Staggered RDL	L5-S1 ELDOA	A/P Ankle Dorsiflexion	Standing Wall Angels						
2	A/P Kneeling Hip Flexion	Quaduped Groin Series	P/A Ankle Dorsiflexion	Kneeling Long Lat Stretch						
3	M/L Kneeling Flex/ER	Seated Glute Stretch	Kneeling Shin Stretch	Wall Triceps Stretch						
4	P/A Lunge w/ Reach	Human Pinwheel	Sole-of-Foot Stretch	Prone Chest Stretch						
5	P/A Lunge w/ Rotational Reach	Hamstring Spectrum	Band Wall Calf/Ankle Stretch	Standing Mid Back Stretch						
6	P/A Lunge w/ Knee Flexion	Long Inner Thigh Stretch		Standing Trap Stretch						
7	Use Green Band with these	Supine Knee Touchers		Standing Deep Shoulder Stretch						
8	movements	'		FR Upper Back Extensions						
9	Cross-Band Supine 90/90			Seated Cross-Legged Prayer						
10	Cross-Band Supine Glute			-						
11	Cross-Band Knee Touchers									
10	Cross-Band SL Knee to Ground									
11	Cross-Band Wall Squat									
12	Use Green or Purple Band									
	with these movements									
Phase 4	Post Work	out Nutrition Protein (20-30 gra		es or Fruits)						
1		Rockin Re								
2		Dairy Protein (Greek Yogu	urt, String Cheese) + Fruit							
3	Salad with Protein + Fruit									
4		Sandwich	or Wrap							
A/P	Front side to Back side		RULES FOR COOLING DOWN							
P/A	Back side to Front side	1) Take your time. Most of the time, less								
M/L	Middle to Outside (lateral)	2) Never get into pain. When stretching		ain scale						
DT	Double Tennis Ball									
TB FR	Tennis Ball or Lacrosse Ball Foam Roller	4) Always refuel yourself after any type o		CAN DE IMDI EMENTED TUDQUEUQUE						
ORB	Blue Orb Ball	•	ISIDE OF COOL-DOWN PERIODS AND C							
UND	Dide Old Dall	THE DAT TO ENSURE	LONG-TERM JOINT/MUSCLE HEALTH	AND PERFURWANCE						

TRACK AND FIELD ROUTINES INVENTORY



UNIVERSITY OF IOWA TRACK & FIELD ROUTINES INVENTORY

			MULTIPLE JU	MP ROUTINES			
KILIMANDJARD	RIP	RUDIMENT	EVEREST	EXTENDED	TETONS	TREK	SUPERIOR
Star Jump	Standing Long Jump	Power Skip for Height	Lunge Jumps	Straight Leg Scissors	180-360 Degree Jumps	Skip for Height	Left Leg Hops
180-360 Degree Jumps	Standing Triple Jump	Power Skip for Distance	Tuck Jumps	Flexed Leg Scissors	Speed Skater	Skip for Distance	Right Leg Hops
Speed Skater	3 Double Leg Bounds	Single Leg FWD	Double Leg Butt Kicks	Alternated Bounds	Downill Jumps	Straight Leg Scissors	3 Lefts / Rights Bounds
Line Hops (lateral)	LLRR Combo	Single Leg BWD	Lateral Squat Jumps	LLRR Bounds	Lunge Jumps	Flexed Leg Scissors	
Dynamic Step-Ups		Double Leg FWD	Downhill Jumps		Single Leg Squat Jumps	Alternate Leg Bound	
Single Leg Butt Kicks		Double Leg BWD	Straddle Jumps				
		LLRR w/Low Amplitudes					
		Medials					
MULTIPLE THRO	W ROUTINE (MB)	MULTI	PLE THROW ROUT	INE MT			
GAS	TANK	BOMB	SHELL	MORTAR			
Standing OHF	Standing Shoulder C-T	Overhead Backwards	Lunge w/ Chest Throw	Hop w/ OHB	ABBREVIATION	MEA	NING
Hip C-T	Reach and Hike	Between Legs Forward	OHF w/ Step	Hop w/BLF	С-Т	Catol	Toss
Good Mornings	Back Toss	Hammer Hip Throw Right	Shoulder Throw w/ Step	2Hops w/OHB	C-1	Catci	11055
V-Ups	Seated Oblique Twist C-T	Hammer Hip Throw Left	Kneeling OHF	2 Hops w/BLF	OHF	Ouer Hea	d Forward
Soccer Sweeps	Leg Toss	Squat Chest Throw	OHF Locked	1Boxw/OHB	7 "	Overnea	u i oi¥aiu
Hurdle Reach	Torso Circles			1Boxw/BLF	ОНВ	Ouer Hear	l Backward
KSCT	KOHF				1 0116	Overnead	I Dack valu
Knee Toss	Leg AD-Abs				BLF	Patuson I.	egs Forward
Partner Exchange	Prone OHB				1 60	Betveen L	egs i oi v aiu
Prone C-T	Kneeling Arch				каст	Vacalina Sid	le Catch Toss
Seated Roll	Partner Exchange / KOHB				T KSC1	Kneeling Sid	le Catch Toss
Front Loaders	Arm AD-Abs				KOHF	Kneeling Oue	r Head Forward
					Ken	Kileeling Ove	Tieau i oi¥aiu
		AL STRENGTH RO					
WATERLOO	PEDESTAL	PILLAR	BATMAAN	VERDUN			
Prisoner Squats	Prone, ES, SL Raise	V-Ups	Single Leg Squats	Low Walks Forward			
V-Situps	Supine, ES, SL Raise	Back Hypers	Toe Touchers	Low Walks Backward			
Pushups	Prone, HS, SL Raise	Leg Toss	Pushups	Duck Lunge Walks			
Back Hypers w/ Twist	Supine, HS, SL Raise	Wrestler's Bridge	Back Hypers	Lateral Duck Walks			
Rocket Jumps	Lateral, ES, SL Raise	Crunch w/ Twist	Hamstring Nordics	Lunge Extension Walks			
Leg toss w/Partner	Lateral, HS, SL Raise	Prone Flexed Knee Hip Ext	Side-Ups	Low Walks Lateral			
Rocky Pushups	Prone, ES, Flex Knee Lift	Toe Touchers	Lunge Good Mornings				
Wrestler's Bridge	Supine, HS, Flex Knee Lift	Back Hypers w/ Twist	Rocky Pushups				
Cossack Extensions	Crunch, Low Reach	L-Overs	Lunge Walks				
Crunch Situps-TBA	Crunch, Low Reach w/ Twist	Side-Ups	Pushup Toe Walks				
Decline Push-ups (SB)		Double Leg Eagles	Double Leg Eagles				
Prone SL Hip Extension		Low Level Bicycles					
		Pelvic Tilt ISO (90/90)					
		Pelvic Tilt ISO w/ Crunch					

SPECIAL THANKS

Rolando Greene - Purdue University
Niki Popp, Makaylah Roberts, and Alexander Roberts



GREAT RESOURCES

- Horizontal Jumps Planning for Long Term Development
- USTFCCA Symposium articles
- Charlie Francis articles and papers
- The Science of Hurdling and Speed Brent McFarlane
- Articles by Joe Vigil

QUESTIONS?

319 530 7583

Clive-Roberts@iowacrosscountry.com

IOWA HAWKEYES