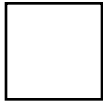


# SCHEDULE OF CLASSES

CE



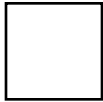
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 20300	Princ & Pract Geomtics	LEC	001	12642	72	3	Johnson	1230-1320-M--W--F	LWSN	B155
		LAB	003	12644	15	0	Peterson	1430-1720----R-	CIVL	2123
		LAB	004	12645	15	0	Okeowo	1130-1420----R-	CIVL	2123
		LAB	007	12648	14	1	Okeowo	1430-1720--T---	CIVL	2123
		LAB	008	49571	14	1	Johnson	0830-1120-----F	CIVL	1113
		LAB	009	60476	14	1	Peterson	0830-1120--T---	CIVL	1266
CE 23100	Engr Materials I	LEC	001	12654	149	1	Jain	0730-0820-M--W--	EE	170
		LAB	002	12655	25	0	Verian	0930-1120--T---	CIVL	G150C
		LAB	004	12657	25	0	Di Bella	1130-1320--T---	CIVL	G150C
		LAB	005	12658	25	0	Di Bella	1330-1520-M-----	CIVL	G150C
		LAB	006	12659	25	0	Desta	1530-1720--T---	CIVL	G150C
		LAB	007	12660	24	1	Verian	1130-1320-M-----	CIVL	G150C
		LAB	008	33786	25	0	Desta	1530-1720-M-----	CIVL	G150C
		LBP	011	33778	149	1	Jain	0730-0820-----F	EE	170
CE 27000	Intro Strctrl Mchncs	LAB	001	12661	25	0	Raffin	1430-1720--T---	CIVL	2118
		LAB	002	12662	25	0	Raffin	1130-1420----R-	CIVL	2118
		LAB	003	12663	24	1	Amaireh	1430-1720----R-	CIVL	2118
		LEC	007	12667	146	4	Varma	0830-0920-M--W--F	ARMS	1010
		LAB	008	41369	25	0	Raffin	1430-1720---W--	CIVL	2118
		LAB	009	41396	24	1	Amaireh	1130-1420---W--	CIVL	2108
		LAB	010	41397	23	2	Raffin	1130-1420--T---	CIVL	2118
CE 29199	Prof Practice Extensive I	EX	001	60394	0	9,999	Jeong			
CE 29201	Contemp Issues In CE	LEC	001	57781	50	10	Lawley	1230-1320--T---	RHPH	164
CE 29299	Prof Practice Extensive II	EX	001	60396	0	9,999	Jeong			
CE 29700	Basic Mech I Statics	LEC	001	12675	122	28	Jeong	1530-1620-M--W--F	PHYS	112
CE 29800	Basic Mech II Dynamics	LEC	001	12676	153	7	Bobet	0930-1020-M--W--F	MATH	175
CE 30300	Engineering Surveying	LEC	001	54001	13	11	Johnson	0830-0920-M--W--	CIVL	2102
		LAB	002	54379	13	11	Johnson	1130-1420--T---	CIVL	2123
CE 34000	Hydraulics	LEC	001	12689	103	22	Lyn	1330-1420-M--W--F	EE	170
CE 34300	Elem Hydraulics Lab	LAB	001	33793	18	0	Lyn	1430-1720-M-----	CIVL	B115F
		LAB	002	12691	19	-1	Lyn	1430-1720----R-	CIVL	B115F
		LAB	004	33795	14	4	Lyn	1130-1420--T---	CIVL	B115F
		LAB	005	12694	11	7	Lyn	1130-1420----R-	CIVL	B115F
		LAB	006	33796	18	0	Lyn	1430-1720--T---	CIVL	B115F
		LAB	007	12696	19	-1	Lyn	1430-1720---W--	CIVL	B115F

# SCHEDULE OF CLASSES

CE



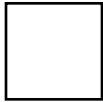
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 35000	Environmental Engr	LEC	001	12699	167	8	Blatchley	1430-1520-M--W--F	MATH	175
CE 35500	Eng Env Sustainability	LEC	001	12700	100	0	Nies	1430-1520-M--W--F	HIKS	B848
CE 36100	Transportation Engr	LEC	001	12701	136	14	Mannering	1200-1315--T--R-	ARMS	1010
CE 37100	Structural Analysis I	LEC	001	12702	122	8	Kreger	0830-0920-M--W--F	WTHR	104
CE 38199	Prof Practice Co-Op I	EX	001	60397	2	9,997	Jeong			
CE 38299	Prof Practice Co-Op II	EX	001	60398	0	9,999	Jeong			
CE 38300	Geotechnical Engr I	LEC	001	12704	98	2	Santagata	1130-1220-M--W--	CIVL	1144
		LBP	002	12705	98	2	Santagata	1130-1220-----F	CIVL	1144
		LAB	003	12706	22	0	Monwuba	1530-1720--T---	CIVL	G150A
		LAB	004	12707	22	1	Dawood	1530-1720----R-	CIVL	G150A
		LAB	005	12708	22	0	Dawood	1530-1720---W--	CIVL	G150A
		LAB	007	12710	16	1	Dawood	0930-1120----R-	CIVL	G150A
		LAB	008	46613	16	0	Ochoa	0930-1120--T---	CIVL	G150A
CE 38399	Prof Practice Co-Op III	EX	001	60399	3	9,996	Jeong			
CE 39399	Prof Practice Extensive III	EX	001	60400	2	9,997	Jeong			
CE 39499	Prof Practice Extensive IV	EX	001	60402	0	9,999	Jeong			
CE 39599	Prof Practice Extensive V	EX	001	60401	1	9,998	Jeong			
CE 39700	UG Professional Intern	EX	001	12711	0	9,999	Jeong			
CE 39800	Intro CE Systems Dsgn	LEC	001	12712	130	10	Ukkusuri	1030-1145--T--R-	ME	1061
CE 45700	Air Poll Cntrl & Des	LEC	001	12721	22	10	Jacko	1200-1315--T--R-	CIVL	3153
CE 47000	Struct Steel Design	LEC	001	12722	43	17	Connor	0830-0920-M--W--	CIVL	1252
		LAB	002	12723	22	8	Godbole	1530-1720----R-	CIVL	3153
		LBP	003	46537	43	17	Connor	0830-0920-----F	CIVL	1252
		LAB	004	49614	21	9	Godbole	1530-1720---W--	CIVL	3153
CE 47300	Reinf Concrete Design	LEC	001	12724	74	6	Pujol	0930-1020-M--W--F	CIVL	1144
		LAB	002	12725	34	6	Keppner	1430-1720-M----	SC	231
		LAB	004	36402	40	0	Keppner	1430-1720--T---	SC	231
CE 47400	Structural Analysis II	LEC	001	12727	59	41	Irfanoglu	1330-1420-M--W--F	CIVL	1144
CE 48300	Geotechnical Engr II	LEC	001	12728	73	2	Bourdeau	1230-1320-M--W--F	CIVL	1144
CE 49700	Arch Eng Des II	LEC	010	43324	25	7	Horton	1230-1320-M--W--F	CIVL	2118
	Building Information Modeling	LEC	012	47197	16	9	Martinez	1430-1720--T---	CIVL	1113
	Intro Architect Engr	LEC	002	12732	37	26	Karava	1030-1120-M--W--F	CIVL	1252
	Life Cycle Engr Construct	LEC	006	41368	112	8	Abraham	1030-1120-M--W--F	ARMS	1010

# SCHEDULE OF CLASSES

CE



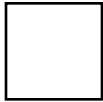
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 49700	Fac									
	Metro System Feasibility	IND	013	62322	1	9,998	Labi			
	Urban Remote Sensing	LEC	001	33758	8	16	Shan	1230-1320-M--W--F	CIVL	2101
CE 49800	C E Design Project	LAB	001	12734	40	0	Daily	0930-1120--T--R-	CIVL	2123
		LBP	004	12737	119	1	Jacko	0830-0920--T--R-	ME	1130
		LAB	007	49702	40	0	Daily	0930-1120--T--R-	CIVL	3153
		IND	008	49703	40	0	Jacko			
		IND	009	49704	40	0	Jacko			
		LAB	010	55685	39	1	Daily	0930-1120--T--R-	CIVL	2118
		IND	011	55686	39	1	Jacko			
CE 51200	Compre Urban Plan Proc	LEC	001	43144	26	4	Fricker	0830-0920-M--W--F	CIVL	2118
CE 52400	Legal Aspects Pract	LEC	002	54984	42	6	Kandil	1730-1845-M--W--	CIVL	3153
CE 53800	Expr Mtds Cons Mat Res	LEC	001	59200	12	18	Olek	1030-1120-M--W--F	CIVL	2118
CE 54200	Hydrology	LEC	001	12752	36	4	Merwade	1330-1420-M--W--F	CIVL	2118
CE 56300	Airport Design	LEC	001	58604	31	-1	Haddock	1430-1520-M--W--F	CIVL	2123
CE 56700	Hwy Traf & Safety Anly	LEC	001	58605	17	13	Tarko	0930-1020-M--W--	CIVL	2102
		LAB	002	58606	17	13	Tarko	0930-1020-----F	CIVL	1266
		LAB	002	58606	17	13	Tarko			
CE 56800	Hwy Infrastrc Mgmt Sys	LEC	001	33768	11	19	Labi	1200-1315--T--R-	CIVL	2102
CE 57100	Earthquake Engineering	LEC	001	12760	30	10	Sozen	0900-1015--T--R-	CIVL	1252
CE 57200	Prestress Concrete Des	LEC	001	12761	45	5	Frosch	0930-1020-M--W--F	CIVL	1252
CE 59500	Finite Elements Elast	LEC	001	12764	39	9	Prakash	1330-1420-M--W--F	CIVL	1252
CE 59700	Adv Building Controls	LEC	046	43502	11	29	Qu	1430-1520-M--W--F	CIVL	3153
	Adv Top Class &Comp Solid Mech	LEC	082	59381	11	19	Zavattieri	1530-1620-M--W--F	CIVL	2123
	Asset Perf Modeling Queue Theo	IND	113	62310	1	9,998	Labi			
	Bicycle Cross-Section Choice	IND	101	61652	1	9,998	Fricker			
	Bicycle Route Choice	IND	100	61651	1	9,998	Fricker			
	Boundary Law And Prop Loc	LEC	075	54006	6	18	Johnson	1530-1620-M--W--F	CIVL	1115
	Boundary Layer & Air Quality	IND	090	61001	1	9,998	Jacko			
	Civil Engr Projects	IND	006	12770	0	9,999				
	Construction Doc Management	IND	093	61364	1	9,998	Kandil			

# SCHEDULE OF CLASSES

CE



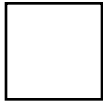
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 59700	Daylighting Simulation II	IND	098	61568	1	9,998	Tzempelikos			
	Digital Image Matching	IND	095	61436	1	9,998	Bethel			
	Digital Photogrammetric Sys	LEC	085	59907	9	15	Bethel	0930-1020-M--W--F	CIVL	2118
	ESE Coll II:Prag Mgmt & Policy	LAB	074	53994	22	8	Rao	1530-1720--T---	LILY	2425
	Energy Simulation	IND	092	61306	0	9,999	Qu			
	Env Fluid Mechanics Lab	IND	107	61935	1	9,998	Troy			
	Environmental Fluid Mechanics	LEC	080	58620	28	2	Troy	1230-1320-M--W--F	CIVL	2123
	Eval Of Rivet Hardness II	IND	089	60795	1	9,998	Connor			
	Forensic Invest Of Comp Str	IND	105	61904	1	9,998	Varma			
	GPS Positioning	LEC	021	43326	9	21	Van Gelder	0730-0845--T--R-	CIVL	2108
	Geographic Information Systems	LEC	PTR	59904	36	-1	Shan	0830-0920-M--W--F	CIVL	2123
	Geospatial Info Tech	LEC	081	59380	6	24	Cai	1030-1120-M--W--F	CIVL	2123
	Ground Engineering	LEC	083	59668	17	13	Prezzi	1330-1445--T--R-	CIVL	2108
	Hydrologic Charactenzation	IND	112	62153	1	9,998	Jafvert			
	Infrastructure Mgmt Principles	IND	096	61450	1	9,998	Labi			
	Issues With Hybrid Vehicles	IND	108	61956	1	9,998	Sinha			
	Lighting/Daylighting Buildings	LEC	047	43506	9	16	Tzempelikos	1630-1720-M--W--	CIVL	2123
		LAB	069	53764	9	16	Tzempelikos	1130-1320--T---	PHYS	116
	Mech & Elect Building Design	IND	111	62025	3	9,996	Horton			
	Multi Model Complex Materials	IND	103	61711	4	9,995	Zavattieri			
	Network Performance Analysis	IND	106	61926	1	9,998	Labi			
	Prog Num Methods	LEC	084	59669	8	22	Salgado	1430-1720---W--	CIVL	1252
	Prop And Prod Of Concrete	IND	099	61626	3	9,996	Weiss			
Resp Of Rc Str Walls To Disp	IND	091	61195	1	9,998	Pujol				
Seismic Behavior Of Walls	IND	097	61457	1	9,998	Bobet				
Separate Sensible Latent	IND	114	62313	1	9,998	Horton				

# SCHEDULE OF CLASSES

CE



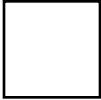
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 59700	Cool									
	Skill Factors In Simulator Trn	IND	104	61865	1	9,998	Dunston			
	Spat Model Of Sign Intersect	IND	102	61691	2	9,997	Bullock			
	Steel Slit Panel Frame Design	IND	087	60731	1	9,998	Liu			
	Structural Health Monitoring	LEC	086	60479	14	16	Sohn	1500-1615--T--R-	CIVL	2108
	Topics In Civil Eng Systems	IND	115	62323	1	9,998	Labi			
	Transit Schedule Info	IND	088	60732	1	9,998	Fricker			
	Transport In Nature	IND	110	62008	1	9,998	Rao			
	UV Effects On Pool Chemistry	IND	109	61971	1	9,998	Blatchley			
	Urban Systems Sustainability	LEC	077	58617	24	6	Nies	1130-1220-M--W--F	CIVL	3153
	Virt Real Tech Construction	LEC	067	53762	5	10	Dunston	1200-1315--T--R-	CIVL	2108
	Water Chemistry Env Eco Eng	LEC	008	12772	33	-3	Hua	1130-1220-M--W--F	CIVL	2123
	Water Issues Intl Rural Areas	IND	094	61427	7	9,992	Jafvert			
	Water Resources Sustainability	LAB	078	58618	21	-1	Rao	0930-1120--T---	ARMS	3109
	LEC	079	58619	21	-1	Rao	0930-1120----R-	CIVL	1266	
CE 59800	Gr Professional Intern	EX	001	61840	1	9,998	Horton			
		EX	002	61959	1	9,998	Labi			
CE 61200	Physical Geodesy	LAB	001	58607	0	25	Van Gelder	1330-1420-----F	CIVL	2123
		LAB	001	58607	0	25	Van Gelder			
		LEC	002	58608	0	25	Van Gelder	1330-1420-M--W--	CIVL	2123
CE 66100	Algorithms In Transpo	LEC	002	60783	8	22	Ukkusuri	1530-1820--T---	CIVL	3153
CE 67500	Finite Element Analy	LEC	001	58610	19	11	Haikal	1030-1145--T--R-	CIVL	1113
CE 69100	CE Sem-Geomatics	LEC	004	12783	10	22	Bethel	1630-1720-----F	CIVL	2123
	CE Sem-Hydraul & Hyd	LEC	001	12780	19	13	Govindaraju	1030-1120-M----	CIVL	2102
	CE Sem-Structural	LEC	005	12784	33	67	Haikal	1630-1720--T---	CIVL	1144
	CE Sem-Transportation	LEC	006	12785	27	73	Sinha	1530-1620--T---	CIVL	1144
	CE-Sem Gr Stdnt Orient	LEC	007	37780	25	15	Govindaraju	1130-1220---W--	CIVL	2102
CE 69700	Adv Modeling Of PVM Drainage	IND	017	61452	1	9,998	Anastasopoulos			

# SCHEDULE OF CLASSES

CE



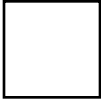
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 69700	Adv Modeling Of Transpo Sys	IND	018	61641	2	9,997	Anastasopoulos			
	Bridge Engineering	LEC	015	58611	31	9	Bowman	0830-0920-M--W--F	CIVL	3153
	Civil Engr Projects	IND	011	47859	0	9,999				
	Grad Engagement Service Lrn	IND	016	61308	2	9,997	Abraham			
	Int/Enrgy/Airflow Model Build	IND	020	61958	1	9,998	Karava			
	Sustain Of Transpo Systems	IND	019	61792	2	9,997	Kandil			
CE 69800	Research MS Thesis	RES	001	12799	0	9,999	Abraham			
		RES	003	12817	1	9,998	Bethel			
		RES	004	46934	0	9,999	Blatchley			
		RES	005	46590	0	9,999	Bobet			
		RES	006	36337	0	9,999	Bourdeau			
		RES	007	12794	1	9,998	Bowman			
		RES	008	12812	3	9,996	Bullock			
		RES	009	12807	1	9,998	Cai			
		RES	010	35425	2	9,997	Connor			
		RES	011	12798	1	9,998	Crawford			
		RES	013	46468	0	9,999	Dunston			
		RES	014	12802	1	9,998	Dyke			
		RES	015	46771	1	9,998	Fricker			
		RES	016	35427	2	9,997	Frosch			
		RES	017	46858	0	9,999	Govindaraju			
		RES	018	47468	0	9,999	Haddock			
		RES	019	12795	2	9,997	Haikal			
		RES	020	12804	4	9,995	Hastak			
		RES	021	37954	1	9,998	Horton			
		RES	022	12814	0	9,999	Hua			
		RES	023	12800	1	9,998	Irfanoglu			
		RES	024	12809	1	9,998	Jacko			
		RES	025	12801	1	9,998	Jafvert			
		RES	026	47532	0	9,999	Jeong			
		RES	027	12805	0	9,999	Johnson			
		RES	028	47472	1	9,998	Kandil			

# SCHEDULE OF CLASSES

CE



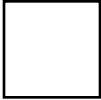
ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 69800	Research MS Thesis	RES	029	12816	1	9,998	Karava			
		RES	030	47182	1	9,998	Kreger			
		RES	031	12796	1	9,998	Labi			
		RES	032	12818	0	9,999	Liu			
		RES	033	12815	1	9,998	Lyn			
		RES	034	12810	0	9,999	Mannering			
		RES	035	12803	0	9,999	Martinez			
		RES	036	12806	2	9,997	Merwade			
		RES	037	12808	0	9,999	Mikhail			
		RES	038	12811	1	9,998	Nies			
		RES	039	37615	2	9,997	Olek			
		RES	040	53938	1	9,998	Peeta			
		RES	041	53926	1	9,998	Prakash			
		RES	042	53927	0	9,999	Prezzi			
		RES	043	53937	2	9,997	Pujol			
		RES	044	53939	0	9,999	Qu			
		RES	045	53928	0	9,999	Ramirez			
		RES	046	53929	0	9,999	Rao			
		RES	047	53940	1	9,998	Salgado			
		RES	048	53941	1	9,998	Santagata			
		RES	049	53930	1	9,998	Shan			
		RES	050	53931	0	9,999	Sinfield			
		RES	051	53942	2	9,997	Sinha			
		RES	052	53943	0	9,999	Sozen			
		RES	053	53932	2	9,997	Tarko			
		RES	054	53933	1	9,998	Troy			
		RES	055	53944	0	9,999	Tzempelikos			
		RES	056	53945	2	9,997	Ukkusuri			
		RES	057	53934	0	9,999	Van Gelder			
		RES	058	53946	1	9,998	Varma			
RES	059	53935	6	9,993	Weiss					
RES	060	53936	0	9,999	Zavattieri					
CE 69900	Research PhD Thesis	RES	001	12825	2	9,997	Abraham			
		RES	003	12828	5	9,994	Bethel			
		RES	004	12848	2	9,997	Blatchley			

# SCHEDULE OF CLASSES

CE



ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

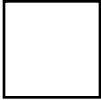
## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 69900	Research PhD Thesis	RES	005	12831	4	9,995	Bobet			
		RES	006	47863	0	9,999	Bourdeau			
		RES	007	12832	3	9,996	Bowman			
		RES	008	47678	3	9,996	Bullock			
		RES	009	12827	1	9,998	Cai			
		RES	010	12859	2	9,997	Connor			
		RES	011	12862	4	9,995	Crawford			
		RES	013	12857	0	9,999	Dunston			
		RES	014	12865	3	9,996	Dyke			
		RES	015	12843	2	9,997	Fricker			
		RES	016	12856	3	9,996	Frosch			
		RES	017	12823	6	9,993	Govindaraju			
		RES	018	46910	6	9,993	Haddock			
		RES	019	12819	2	9,997	Haikal			
		RES	020	12820	4	9,995	Hastak			
		RES	021	47613	4	9,995	Horton			
		RES	022	12829	0	9,999	Hua			
		RES	023	12847	3	9,996	Irfanoglu			
		RES	024	46772	0	9,999	Jacko			
		RES	025	12834	2	9,997	Jafvert			
		RES	026	12821	0	9,999	Jeong			
		RES	027	12833	0	9,999	Johnson			
		RES	028	12858	4	9,995	Kandil			
		RES	029	12840	2	9,997	Karava			
		RES	030	12852	2	9,997	Kreger			
		RES	031	12835	6	9,993	Labi			
		RES	032	12839	1	9,998	Liu			
		RES	033	37378	1	9,998	Lyn			
		RES	034	12842	0	9,999	Mannering			
		RES	035	12866	3	9,996	Martinez			
		RES	036	12837	1	9,998	Merwade			
		RES	037	12863	0	9,999	Mikhail			
		RES	038	46859	3	9,996	Nies			
		RES	039	12836	4	9,995	Olek			
		RES	040	47026	6	9,993	Peeta			



# SCHEDULE OF CLASSES

CE



ACADEMIC\_PERIOD: 201220 AND SUBJECT: CE AND CAMPUS: PWL

## ACADEMIC\_PERIOD: 201220

COURSE NUMBER	TITLE	TYPE	SEC	CRN	ENRL	AVAIL	INSTRUCTOR (P)	TIME	BUILDING	ROOM
CE 69900	Research PhD Thesis	RES	041	12824	4	9,995	Prakash			
		RES	042	12844	4	9,995	Prezzi			
		RES	043	12830	2	9,997	Pujol			
		RES	044	12846	3	9,996	Qu			
		RES	045	48156	0	9,999	Ramirez			
		RES	046	12860	2	9,997	Rao			
		RES	047	47525	4	9,995	Salgado			
		RES	048	12864	3	9,996	Santagata			
		RES	049	12826	2	9,997	Shan			
		RES	050	12853	3	9,996	Sinfield			
		RES	051	12854	2	9,997	Sinha			
		RES	052	12861	0	9,999	Sozen			
		RES	053	12822	1	9,998	Tarko			
		RES	054	12855	4	9,995	Troy			
		RES	055	12838	2	9,997	Tzempelikos			
		RES	056	12841	6	9,993	Ukkusuri			
		RES	057	12849	1	9,998	Van Gelder			
		RES	058	53950	10	9,989	Varma			
		RES	059	53948	4	9,995	Weiss			
		RES	060	53949	6	9,993	Zavattieri			