MUSIC THEORY QUICK FACTS SHEET

PART-WRITING RULES

- 1. Allow all tendency tones to resolve correctly.
- 2. Do not create parallel octaves, fifths, or unisons (by parallel or contrary motion).
- 3. If it is possible to keep a note, do so, if not, move each part by the smallest possible interval. Avoid leaping by large, or difficult intervals especially augmented intervals.
- 4. No more than an octave between SA and AT.
- 5. No crossed voicings or overlapping of voices.
- 6. When there is a choice of which chord member to double, use the most stable tone present. Usually, this is the root, followed by the fifth. Never double a tendency tone as this will force you to break rule 1 or 2.
- 7. Never omit any note of a triad or seventh chord except the fifth and only omit the fifth when you must do so in order to follow rule 1.

These principles assume that you have written with the correct ranges and that all the chords actually contain the notes you say they do.

NON-CHORD TONES							
Type	Approached By:	Left By:					
Neighbor Tone	step	step in opposite direction					
Passing Tone	step	step in the same direction					
Appoggiatura	leap	step in the opposite direction					
Escape Tone	step	leap in the opposite direction					
Suspension	same note	step down					
Retardation	same note	step up					
Anticipation	step or leap	same note					
Pedal Tone	same note	same note					

TENDENCY TONES

- The leading tone in a V or viio chord resolves UP by step to the tonic pitch when going to I or vi.
- The 7th of any chord resolves DOWN by step.
- The root of a Neapolitan chord (lowered 2nd scale degree) resolves DOWN by diminished 3rd to the leading tone of a V chord.
- The pitches forming the augmented 6th interval in any of the augmented sixth chords resolve outward by halfstep in both directions to the dominant pitch.
- Any pitch that is altered usually resolves in the direction of its alteration.

CADENCE TYPES

					
Cadence Name	Identifying Characteristics				
PAC	V or V ⁷ moving to I. Both chords in root position. Soprano on root of I chord.				
(Perfect Authentic Cadence)					
IAC	V or V ⁷ moving to I, but with either an inverted chord, or the soprano not finishing on				
(Imperfect Authentic Cadence)	the tonic.				
нс	A cadence that ends on a V chord. The V chord can be approached from a number of				
(Half Cadence)	other chords (I, ii, IV, V/V, etc.)				
PC	IV moving to I. Also known as "church" cadence. Named for the "Amen" commonly				
(Plagal Cadence)	used at the end of hymns.				
DC	A cadence that creates the expectation of going to I, but substitutes another chord				
(Deceptive Cadence)	instead. Common substitutes for I are: vi, IV ⁶ , bVI, and occasionally IV or V/ii.				

INVERSION SYMBOLS

	Root Position	1 st Inv.	2 nd Inv.	3 rd Inv.
Triad	none	6	6 4	none
Seventh Chord	7	6 5	4	4 2

DIATONIC CHORD QUALITIES

	Ψ.	1114	VII.	~ 17 12			
Major	I	ii	iii	IV	V	vi	vii°
Minor	i	ii°	III	iv	V (v)	VI	vii° (VII)

* In minor the V and the vii° require an accidental to raise the leading tone.

NUMBER OF HALFSTEPS IN SIMPLE INTERVALS

	Dim	Min	Maj	Aug
2 nd	0	1	2	3
3 rd	2	3	4	5
6 th	7	8	9	10
7 th	9	10	11	12

	Dim	Per	Aug
4 th	4	5	6
5 th	6	7	8
8 th	11	12	13

FUNCTIONAL DIATONIC CHORD PROGRESSIONS

Rule o	f Thumb	Diagram of Common Functional Progressions
Root movement by: 2nd 3rd 5th	Typical Direction Ascending Descending Descending	
movement by: 2 nd 3 rd	Direction Ascending Descending	

CHROMATIC CHORDS							
Type	Notation	Distinguishing Features					
Secondary Chord	V/ii vii ^{o7} /V	Any dominant-functioning chromatic chord that leads (by falling 5 th or rising halfstep root movement) to a diatonic pitch. The chord on the top can be any of the following (in any inversion): V, V ⁷ , vii ^o , vii ^o , vii ^o . The chord on the bottom can be any diatonic or borrowed chord that is major or minor.					
Borrowed Chord	see borrowed chord chart	Any chromatic triad or seventh chord that is "borrowed" from the parallel minor (or the parallel major if the original key is minor). All notes in the chord must exist in the parallel key to qualify.					
Neapolitan 6 th Chord	N^6	A major triad in first inversion with a lowered 2^{nd} scale degree as its root. This chord functions as a pre-dominant chord, usually coming before a V or a 1^6 ₄ .					
Augmented 6 th Chord	It ⁺⁶ Fr ⁺⁶ Ger ⁺⁶	Any of three specific chords which contain the interval of an augmented sixth resolving outward by half-steps in both directions to the dominant pitch. See chart.					

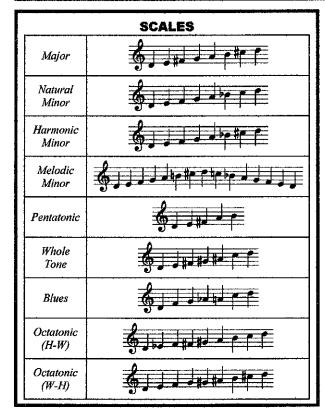
	AUGMENTED 6TH CHORDS							
	Notes Present	Example (Key of C)						
It ⁺⁶	Three pitches only. The characteristic augmented sixth interval, and the tonic pitch.	#8 #8						
Fr ⁺⁶	The characteristic augmented sixth interval, the tonic pitch, and the second scale degree.	\$ 1 to 8						
Ger ⁺⁶	The characteristic augmented sixth interval, the tonic pitch, and the lowered third (or the regular third in minor).	A top						

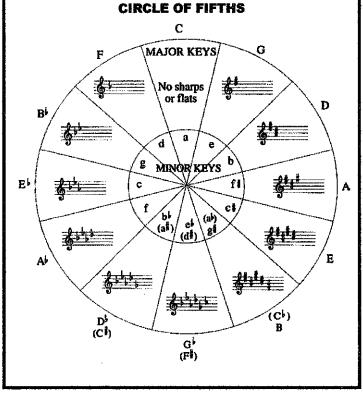
*The "characteristic augmented sixth interval" consists of two pitches, an augmented sixth apart, that resolve outward by halfsteps to the dominant pitch.

(Mode Mixture)

The only triads commonly borrowed in minor keys are the I and the IV

Seventh Chords – Major Key									
Diatonic Chord	I ^{M7}	ii ⁷	iii ⁷	IV^{M7}	V ⁷	vi ⁷	vii ^{ø7}		
Borrowed Chord	i ⁷	ii ^{ø7}	♭III ^{M7}	iv ⁷	v ⁷	♭VI ^{M7}	♭VII ⁷ vii ^{o7}		





CHORD QUALITIES

Triads

Chord Type	Bottom Interval	Top Interval	Outside Interval	Roman Numeral	Jazz Symbol	Example (key of F)
Major Triad	М3	m3	P5	IV	В	₹ • \$
Minor Triad	m3	М3	P5	vi	Dm, Dmi, Dmin, D-	₹ 8
Augmented Triad	М3	М3	A5	V ⁺	C ⁺ , Caug	5 18
Diminished Triad	m3	m3	d 5	vii°	E°, Edim	6 8

Seventh Chords

				CHULU				
Chord	Common	Bottom	Middle	Тор	Outside	Roman	Jazz	Example
Туре	Name	Interval	Interval	Interval	Interval	Numeral	Symbol	(key of G)
Minor-minor 7 th	Minor 7 th	m3	М3	m 3	m7	ii ⁷	Am7, Ami7, A-7	
Major-major 7 th	Major 7 th	М3	m3	МЗ	М7	I ^{M7}	GM7, Gma7, Gmaj7, G∆7	6 #8
Major-minor 7th	Dominant 7 th	М3	m3	m3	m7	V ⁷	D7	6 1
Fully diminished 7 th	Diminished 7 th	m3	m3	m3	d7	vii ^{o7}	F# ⁰⁷ , F# dim7	
Half diminished 7 th	Half diminished 7 th	m3	m3	m3	МЗ	ii ^{ø7}	Am7 ⁽⁶⁵⁾	***
Minor-major 7 th	Minor-major 7 th	m3	М3	МЗ	М7	n/a	Em ^(maj7)	6 1

