

# RUDOLF HAKEN

## SCALES AND ARPEGGIOS

### FOR THE VIOLA

The arpeggios in this book are the same as in the Carl Flesch Scale System. As in the Flesch system, minor scales are in melodic form for single stops, and harmonic form for double stops. For quick mastery of scales and arpeggios in all keys, the following changes have been made from the Flesch system:

1. Scales are ordered chromatically rather than by the circle of fifths.
2. Fingerings follow the same pattern for every key, and are identical ascending and descending. For scales in the higher positions, fingerings are modified to facilitate execution of the highest pitches. Once scales and arpeggios have been mastered in all keys, they should be practiced with a variety of fingerings.
3. Double-stop scales have a span of only one octave. Once this is mastered, students are ready to learn double-stop scales in two and three octaves. Before attempting scales in thirds, sixths, and octaves, refer to the Guide to Scales in Double Stops which is available for download at [www.rudolfhaken.com](http://www.rudolfhaken.com)

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# UNIVERSITY OF ILLINOIS VIOLA STUDIO

## SCALES AND ARPEGGIOS

### Rudolf Haken

#### **REQUIREMENTS**

Students must play scales and arpeggios in all keys as part of their regular practice regimen. Scales and etudes are to be played for the string faculty for technique juries held in November. For juries, you must be prepared to play scales and arpeggios in all keys; the faculty will then choose two keys for you to perform. Perfect intonation and fluent execution are expected. Slur 1 or 2 bows per measure.

Freshman and sophomore viola performance majors: Scales and arpeggios in all keys, no double stops.

Junior and senior viola performance majors: Scales and arpeggios in all keys, including double stops – student's choice of octaves, sixths, or thirds

Graduate viola majors: Scales and arpeggios in all keys, including thirds, sixths, and octaves.

Undergraduate viola music education majors: Scales and arpeggios in all keys, no double stops.

#### **MUSIC THEORY**

It is assumed that incoming freshmen have a thorough understanding of the following music theory concepts:

- circle of fifths
- key signatures
- whole-step and half-step patterns for scales (see following page)

# SCALE PATTERNS FOR ALL MAJOR AND MINOR SCALES

major

1 2 3 4 5 6 7 8  
tonic supertonic mediant subdominant dominant submediant leading tone tonic

natural minor

1 2 3 4 5 6 7 8

harmonic minor

1 2 3 4 5 6 7 8  
3 half-steps

melodic minor (ascending)

1 2 3 4 5 6 7 8

melodic minor (descending)

8 7 6 5 4 3 2 1

# C MAJOR / C MINOR

1 II 1 II 4 1 3 1 2

1 II 1 II 4 1 3 1 2

1 II 1 0 1 II 1 0

1 II 1 2 1 II 1 2 1

1 II 1 2 1

2 4 1 II 1 3 4 2 4 2 4 3 1 II 2 4 3 1 II 1 4 2

1 II 1 II 3 III 2

D 1 2 1 2      A 1 2 1 2 1 2 1      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4 3 4 3      G 4 3 4 3

D 1 2 1 2      A 1 2 1 2 1 2 1      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4 3 4 3      G 4 3 4 3

G 2 2 3 4      D 2 2 3 4 3 2 2      G 4 3 2 2

C 1 1 2 3      G 1 1 2 3 2 1 1      C 3 2 1 1

G 2 2 3 4      D 2 2 4 4 4 2 2      G 4 3 2 2

C 1 1 2 3      G 1 1 3 3 3 1 1      C 3 2 1 1

*all first and fourth finger*

D 1 2 1 2      A 1 2 1 2 1 2 1      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4 3 4 3      G 4 3 4 3

*all first and fourth finger*

D 1 2 1 2      A 1 2 1 2 1 2 1      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4 3 4 3      G 4 3 4 3

# C# MAJOR / C# MINOR

The image displays a musical score for the C# Major / C# Minor scales and arpeggios for viola. The score is organized into eight systems, each consisting of two staves: a bass staff on the left and a treble staff on the right. The key signature is one sharp (F#), and the time signature is 3/4. The first system shows the ascending and descending scales in both hands, with fingering numbers (1, 2, 3, 4) and bowing/playing techniques (II, III) indicated above the notes. The second system continues the scale patterns. The third system introduces arpeggios, with the first hand playing a sequence of notes (1, 1, 1, 1) and the second hand playing a sequence (1, 1, 1, 1). The fourth system shows more complex arpeggio patterns with fingering (1, 1, 1, 1) and bowing (II, I). The fifth system features arpeggios with fingering (1, 1, 1, 1) and bowing (II, I). The sixth system shows arpeggios with fingering (1, 1, 1, 1) and bowing (II, I). The seventh system includes arpeggios with fingering (1, 3, 4, 2) and bowing (II, I), and also features some notes enclosed in boxes. The eighth system shows arpeggios with fingering (1, 1, 1, 1) and bowing (II, I), and also features some notes enclosed in boxes. The score concludes with a final note in the bass staff.

D 1 2 1 2      A 1 2 1 2      D 1 2 1

G 3 4 3 4      D 3 4 3 4      G 4 3 4 3

D 1 2 1 2      A 1 2 1 2      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4      G 4 3 4 3

G 2 2 3 4      D 2 2 3 4      G 4 3 2 2

C 1 1 2 3      G 1 1 2 3      C 3 2 1 1

G 2 2 3 4      D 2 2 4 4      G 4 3 2 2

C 1 1 2 3      G 1 1 3 3      C 3 2 1 1

*all first and fourth finger*

G      D      G

C      G      C

*all first and fourth finger*

G      D      G

C      G      C

# D MAJOR / D MINOR

1 III 1 II 1 II 4 II II 1 3 III III 1 3

1 III 1 II 1 II 4 II II 1 3 III III 1 3

1 II 1 1 1 1 1 II 1 1

1 II 1 2 2 1 II 1 2 2 1

1 II 1 2 2 1 II 2 2

1 3 4 2 II 1 3 4 2 4 2 4 3 1 II 2 4 3 1 2 4 3

1 II 1 II 3 III 3

D 1 2 1 2      A 1 2 1 2      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4      G 4 3 4 3

D 1 2 1 2      A 1 2 1 2      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4      G 4 3 4 3

G 2 2 3 4      D 2 2 3 4      G 4 3 2 2

C 1 1 2 3      G 1 1 2 3      C 3 2 1 1

G 2 2 3 4      D 2 2 4 4      G 4 3 2 2

C 1 1 2 3      G 1 1 3 3      C 3 2 1 1

*all first and fourth finger*

G      D      G

C      G      C

*all first and fourth finger*

G      D      G

C      G      C

# E $\flat$ MAJOR / E $\flat$ MINOR

1 III 1 II 1 II 4 II 1 3 III 1 3

1 III 1 II 1 II 4 II 1 3 III 1 3

1 III 1 II 1 II 1 III 1 II 1 II 1

1 III 1 II 1 2 III 1 II 1 2

1 III 1 II 1 II 2 2

1 3 4 2 III 1 3 4 2 II 1 3 4 2 4 2 4 3 1 II 2 III 4 3 1 2 4 3

1 III 1 II 1 II 3 III 3

D 1 2 1 2      A 1 2 1 2 1 2 1      D 2 1 2 1  
 G 3 4 3 4      D 3 4 3 4 3 4 3      G 4 3 4 3

D 1 2 1 2      A 1 2 1 2 1 2 1      D 2 1 2 1  
 G 3 4 3 4      D 3 4 3 4 3 4 3      G 4 3 4 3

G 2 2 3 4      D 2 2 3 4 3 2 2      G 4 3 2 2  
 C 1 1 2 3      G 1 1 2 3 2 1 1      C 3 2 1 1

G 2 2 3 4      D 2 2 4 4 4 2 2      G 4 3 2 2  
 C 1 1 2 3      G 1 1 3 3 3 1 1      C 3 2 1 1

*all first and fourth finger*

G      D      G  
 C      G      C

*all first and fourth finger*

G      D      G  
 C      G      C

# E MAJOR / E MINOR

1 III 1 II 1 II 4 II II 1 3 III III 1 3

1 III 1 II 1 II 4 II II 1 3 III III 1 3

1 III 1 II 1 II 1 III 1 II 1 II 1

1 III 1 II 1 II 2 III 1 II 1 II 2

1 III 1 II 1 II 2

1 3 4 2 III 1 3 4 2 II 1 3 4 # 2 4 2 4 # 3 1 2 4 3 III 2 4 3

1 III 1 II 1 II 3 III 3

D 1 2 1 2      A 1 2 1 2      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4      G 4 3 4 3

D 1 2 1 2      A 1 2 1 2      D 2 1 2 1

G 3 4 3 4      D 3 4 3 4      G 4 3 4 3

G 2 2 3 4      D 2 2 3 4      G 4 3 2 2

C 1 1 2 3      G 1 1 2 3      C 3 2 1 1

G 2 2 3 4      D 2 2 4 4      G 4 3 2 2

C 1 1 2 3      G 1 1 3 3      C 3 2 1 1

*all first and fourth finger*

G      D      G

C      G      C

*all first and fourth finger*

G      D      G

C      G      C

# F MAJOR / F MINOR

1 III 1 II 1 II 4 II II 1 3 III III 1 3

1 III 1 II 1 II 4 II II 1 3 III III 1 3

1 III 1 II 1 1 III 1 II 1 1

1 III 1 II 2 III 1 II 1 2 II 2

1 III 1 II 2 II 2

1 3 4 2 III 1 3 4 2 II 1 3 4 2 4 2 4 3 1 II 2 4 3 1 2 4 3

1 III 1 II 1 II 3 III 3

G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

D 2 2 3 4      A 2 2 3 4 3 2 2      D 4 3 2 2

G 1 1 2 3      D 1 1 2 3 2 1 1      G 3 2 1 1

D 2 2 3 4      A 2 2 4 4 4 2 2      D 4 3 2 2

G 1 1 2 3      D 1 1 3 3 3 1 1      G 3 2 1 1

*all first and fourth finger*

G      D      G

C      G      C

*all first and fourth finger*

G      D      G

C      G      C

# F# MAJOR / F# MINOR

1 III 1 II 1 II 4 II 1 3 III 1 3

1 III 1 II 1 II 4 II 1 3 III 1 3

1 III 1 II 1 1 1 III 1 II 1 1 1

1 III 1 II 2 2 III 1 II 1 2 2

1 III 1 II 2 2 III 1 II 1 2 2

1 3 4 2 III 1 3 4 2 II 1 3 4 2 4 2 4 3 1 II 2 4 3 1 2 4 3

1 III 1 II 1 II 3 III 3

G 1 2 1 2      D 1 2 1 2      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4      C 4 3 4 3

G 1 2 1 2      D 1 2 1 2      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4      C 4 3 4 3

D 2 2 3 4      A 2 2 3 4      D 4 3 2 2

G 1 1 2 3      D 1 1 2 3      G 3 2 1 1

D 2 2 3 4      A 2 2 4 4      D 4 3 2 2

G 1 1 2 3      D 1 1 3 3      G 3 2 1 1

*all first and fourth finger*

C      G      C

*all first and fourth finger*

C      G      C

# G MAJOR / G MINOR

0 <sup>I</sup> 1 2 3 **2** 3 **2** 3 3 3 2 **3** 2 **3** 2 <sup>I</sup> 1 3 <sup>II</sup> 1 2

0 <sup>I</sup> 1 2 3 **2** 3 **2** 3 3 3 2 **3** 2 **3** 2 <sup>I</sup> 1 3 <sup>II</sup> 1 2

0 <sup>II</sup> 1 <sup>I</sup> 1 2 2 3 2 2 1 <sup>I</sup> 1 0 0 <sup>II</sup> 1 <sup>I</sup> 1 2 2 3 2 2 1 <sup>I</sup> 1 0

0 <sup>II</sup> 1 <sup>I</sup> 1 2 2 3 2 2 1 <sup>I</sup> 2 <sup>II</sup> 1 0 <sup>II</sup> 1 <sup>I</sup> 1 2 2 3 2 2 1 <sup>I</sup> 2 <sup>II</sup> 1

0 <sup>II</sup> 1 <sup>I</sup> 1 2 2 3 2 2 1 <sup>I</sup> 2 <sup>II</sup> 1 <sup>II</sup> 1

0 2 4 1 **1** 3 4 2 **1** 3 4 2 **1** 3 4 **2** 3 2 **4** 3 1 **2** 4 3 1 **1** 4 2

0 1 2 2 3 3 3 2 2 1 3 2

G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1  
 C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1  
 C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

D 2 2 3 4      A 2 2 3 4 3 2 2      D 4 3 2 2  
 G 1 1 2 3      D 1 1 2 3 2 1 1      G 3 2 1 1

D 2 2 3 4      A 2 2 4 4 4 2 2      D 4 3 2 2  
 G 1 1 2 3      D 1 1 3 3 3 1 1      G 3 2 1 1

*all first and fourth finger*

G      D      G  
 C      G      C

*all first and fourth finger*

G      D      G  
 C      G      C



G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

D 2 2 3 4      A 2 2 3 4 3 2 2      D 4 3 2 2

G 1 1 2 3      D 1 1 2 3 2 1 1      G 3 2 1 1

D 2 2 3 4      A 2 2 4 4 4 2 2      D 4 3 2 2

G 1 1 2 3      D 1 1 3 3 3 1 1      G 3 2 1 1

*all first and fourth finger*

D      A      D

G      D      G

*all first and fourth finger*

D      A      D

G      D      G

# A MAJOR / A MINOR

III 1      II 1      I 1 2 3 2 3 2 3 3 3 2 3 2 3 2 I 1 I 1 3      II 1 3

III 1      II 1      I 1 2 3 2 3 2 3 3 3 2 3 2 3 2 I 1 I 1 3      II 1 3

III 1      II 1      I 1 2 2 3 2 2 1      I 1      II 1      III 1      II 1      I 1 2 2 3 2 2 1      I 1      II 1

III 1      II 1      I 1 2 2 3 2 2 1      I 2      II 2      III 1      II 1      I 1 2 2 3 2 2 1      I 2      II 2

III 1      II 1      I 1 2 2 3 2 2 1      I 2      II 2

1 3 4 2 1 3 4 2 1 3 4 2 3 2 4 3 1 2 4 3 1 2 4 3

III 1      II 1      I 1      II 1

1 2 2 3 3 3 2 2 1      3      3

III 1      II 1      I 1      I 1      II 1

G 1 2 1 2      D 1 2 1 2      G 2 1 2 1  
 1 2 1 2      1 2 1 2      1 2 1 2  
 C 3 4 3 4      G 3 4 3 4      C 4 3 4 3

G 1 2 1 2      D 1 2 1 2      G 2 1 2 1  
 1 2 1 2      1 2 1 2      1 2 1 2  
 C 3 4 3 4      G 3 4 3 4      C 4 3 4 3

D 2 2 3 4      A 2 2 3 4      D 4 3 2 2  
 2 2 3 4      2 2 3 4      2 2 3 4  
 G 1 1 2 3      D 1 1 2 3      G 3 2 1 1

D 2 2 3 4      A 2 2 4 4      D 4 3 2 2  
 2 2 3 4      2 2 4 4      2 2 3 4  
 G 1 1 2 3      D 1 1 3 3      G 3 2 1 1

*all first and fourth finger*  
 D A D  
 1 2 3 4      1 2 3 4      1 2 3 4

*all first and fourth finger*  
 D A D  
 1 2 3 4      1 2 3 4      1 2 3 4



G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

G 1 2 1 2      D 1 2 1 2 1 2 1      G 2 1 2 1

C 3 4 3 4      G 3 4 3 4 3 4 3      C 4 3 4 3

G 2 2 3 4      D 2 2 3 4 3 2 2      G 4 3 2 2

C 1 1 2 3      G 1 1 2 3 2 1 1      C 3 2 1 1

G 2 2 3 4      D 2 2 4 4 4 2 2      G 4 3 2 2

C 1 1 2 3      G 1 1 3 3 3 1 1      C 3 2 1 1

*all first and fourth finger*

D A D

G D G

*all first and fourth finger*

D A D

G D G

# B MAJOR / B MINOR

III 1 1 2 3 2 3 3 3 2 3 2 3 2 I 1 I 1 3 II II 1 3

III 1 1 2 3 2 3 3 3 2 3 2 3 2 I 1 I 1 3 II II 1 3

III 1 1 2 2 3 2 2 1 I 1 1 II 1 III 1 II 1 I 1 2 2 3 2 2 1 I 1 II 1

III 1 1 2 2 3 2 2 1 I 2 II 2 III 1 II 1 I 2 2 3 2 2 1 I 2 II 2

III 1 1 2 2 3 2 2 1 I 2 II 2 III 1 II 1 I 2 2 3 2 2 1 I 2 II 2

1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 2 4 3 1 2 4 3

1 1 2 2 3 3 3 2 2 1 3 3 II 3

G ————— D ————— G —————  
 1 2 1 2      1 2 1 2      1 2 1 2      1 2 1

C ————— G ————— C —————  
 3 4 3 4      3 4 3 4      3 4 3      4 3 4 3

G ————— D ————— G —————  
 1 2 1 2      1 2 1 2      1 2 1 2      2 1 2 1

C ————— G ————— C —————  
 3 4 3 4      3 4 3 4      3 4 3      4 3 4 3

G ————— D ————— G —————  
 2 2 3 4      2 2 3 4      3 2 2      4 3 2 2

C ————— G ————— C —————  
 1 1 2 3      1 1 2 3      2 1 1      3 2 1 1

G ————— D ————— G —————  
 2 2 3 4      2 2 4 4      4 2 2      4 3 2 2

C ————— G ————— C —————  
 1 1 2 3      1 1 3 3      3 1 1      3 2 1 1

*all first and fourth finger*  
 D ————— A ————— D —————

G ————— D ————— G —————

*all first and fourth finger*  
 D ————— A ————— D —————

G ————— D ————— G —————