



Binary 0101

LAURA ESTES

Instrumentation

Full Score	1
Flute	8
Oboe (Opt. Flute 2)	2
B♭ Clarinet	8
Bass Clarinet	2
Alto Saxophone	5
Tenor Saxophone	2
Baritone Saxophone	2
B♭ Trumpet	8
Horn in F	4
Alternate Horn in F	2
Trombone/Euphonium/Bassoon	6
Alternate Trombone	2
Baritone T.C.	2
Tuba	4
Timpani	2
Mallets	2
Xylophone, Bells	
Percussion 1	2
Snare Drum, Bass Drum	
Percussion 2	4
Crash Cymbals, Tom-tom, Woodblock, Shaker	



ABOUT THE COMPOSER



Laura Estes taught middle and high school band for 36 years before retiring in 2018 from the Cobb County School System (GA). Upon retirement she began composing, and her first piece *Kvetchers (Surprises in Controversial Time)* was accepted for publication in Excelcia's 2020 catalog. In addition to her music being performed at The Midwest Clinic in Chicago, Estes' concert works have been selected for the J.W. Pepper Editor's Choice List as well as being named Five Star Features from Stanton's Sheet Music. With her composition *Walking on Air*, Estes was named the winner of the 2021 Women Band Directors International (WBDI) Composition Competition.

Throughout Estes' career, her bands consistently earned Superior ratings at performance evaluations, and she was awarded the National Band Association's Citation of Excellence as her middle and high school bands were selected to perform at clinics in the Southeast.

A South Florida native, Estes earned her Bachelor's Degree in Music Education from The Florida State University and her Master's Degree in Music Education from Georgia State University. In addition to composing, Estes continues to serve as an adjudicator, guest conductor, clinician, and mentor. Estes and her husband Gil reside in Marietta, GA, and have 5 amazing children: Adrienne, April, Eric, Daniel, and Michelle.

BINARY 0101

Fun Fact: There is an actual counting system that uses only 2 digits as its base, or base-2. Utilized by computers and other electronic devices to store data and perform computations, this binary number system is composed of only two numbers - zero and one. With roots going as far back as 2400 BCE Egypt and third century BCE China, the binary digit system was invented by mathematician Gottfried Wilhelm Leibniz in the 17th century. This led to the invention of electric circuitry and eventually the first computer ENIAC (Electronic Numerical Integrator and Computer). "0101" in binary code represents the number 5, and since this piece is a level 0.5, the title *Binary 0101* was born!

Creatively using only 6 notes, *Binary 0101* was written as a fun piece for young band students approaching their initial set of concerts as new musicians. Set in a minor key, *Binary 0101* is accessible in the first year of band instruction and beyond. Students will shine when it is their turn to play the melody and percussionists will enjoy the use of "toys" to make the music special. With a fun, rhythmic clapping section in the middle of the piece, there are no long extended rests - every student will be busy and engaged from start to finish!

I hope your students enjoy playing *Binary 0101* as much as I enjoyed writing it. Here's to happy music-making!

DEDICATION AND THANK YOU

With much love, *Binary 0101* is dedicated to my husband Gil, who in addition to being a professional trombonist, is a computer software engineer who lives and breathes this base-2 binary system. Thank you for the clever title and for patiently explaining the binary system to me (more than once).



excelciamusic.com/laura-estes



[excelciamusicpublishing](https://www.youtube.com/excelciamusicpublishing)

Recordings are available on all major streaming services.

Allegro ♩ = 142

Flute
Oboe (Opt. Flute 2)
B♭ Clarinet
Bass Clarinet
Alto Saxophone
Tenor Saxophone
Baritone Saxophone
B♭ Trumpet
Horn in F
Alternate Horn in F
Trombone/Euphonium/Bassoon
Alternate Trombone
Tuba
Timpani (B♭; C)
Mallets (Xylophone, Bells)
Percussion 1 (Snare Drum, Bass Drum)
Percussion 2 (Crash Cymbals, Tom-tom, Woodblock, Shaker)

4

f

4

f

4

f

4

f

4

f

4

f

4

f

4

f

Xylophone

Snare Drum: snares on

f Bass Drum

Crash Cymbals ch.

f

4

f

Fl.

Ob.

B $\flat$ Cl.

B. Cl.

A. Sax.

T. Sax.

B. Sax.

B $\flat$ Tpt.

Hn.

Alt. Hn.

Tbn./
Euph./
Bsn.

Alt. Tbn.

Tuba

Timp.

Mal.

Perc. 1

Perc. 2

ch.

9

Fl.

Ob.

B $\flat$ Cl.

B. Cl.

A. Sax.

T. Sax.

B. Sax.

9

B $\flat$ Tpt.

Hn.

Alt. Hn.

Tbn./
Euph./
Bsn.

Alt. Tbn.

Tuba

Timp.

Mal.

Perc. 1

Perc. 2

Tom-tom

9 10 11 12

13

Fl. *f*

Ob. *f*

B $\flat$ Cl. *f*

B. Cl. *mf*

A. Sax. *mf*

T. Sax. *mf*

B. Sax. *mf*

13

B $\flat$ Tpt. *f*

Hn. *mf*

Alt. Hn. *mf*

Tbn./
Euph./
Bsn. *mf*

Alt. Tbn. *mf*

Tuba *mf*

Timp. *mf*

Mal.

Perc. 1 *mf*

Perc. 2 *mf*

Fl. *f*

Ob. *f*

B $\flat$ Cl. *f*

B. Cl. *f*

A. Sax. *f*

T. Sax. *f*

B. Sax. *f*

B $\flat$ Tpt. *f*

Hn. *f*

Alt. Hn. *f*

Tbn./
Euph./
Bsn. *f*

Alt. Tbn. *f*

Tuba *f*

Timp. *f*

Mal. *f*

Perc. 1 *f*

Perc. 2 *f*

PCB2403FS

28

Fl.

Ob.

B $\flat$ Cl.

B. Cl.

A. Sax.

T. Sax.

B. Sax.

B $\flat$ Tpt.

Hn.

Alt. Hn.

Tbn./
Euph./
Bsn.

Alt. Tbn.

Tuba

Timp.

Mal.

Perc. 1

Perc. 2

To Bells

34

Fl. *mf*

Ob. *mf*

B $\flat$ Cl. *mf*

B. Cl. *mp*

A. Sax. *mf*

T. Sax. *mf*

B. Sax. *mp*

34

B $\flat$ Tpt. *mf*

Hn. *mf*

Alt. Hn. *mf*

Tbn./Euph./Bsn. *mp*

Alt. Tbn. *mp*

Tuba *mp*

Timp. *mp*

Mal. *mf*

Perc. 1 *mp*

Perc. 2 *mp*

Tom-tom *mf*

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43

PCB2403FS	44	45	46	47	48
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PCB2403FS

54

Fl. *f*

Ob. *f*

B $\flat$ Cl. *f*

B. Cl. *f*

A. Sax. *f*

T. Sax. *f*

B. Sax. *f*

54

B $\flat$ Tpt. *f*

Hn. *f*

Alt. Hn. *f*

Tbn./
Euph./
Bsn. *f*

Alt. Tbn. *f*

Tuba *f*

Play

Timp. *f*

Mal. *f*

Perc. 1 *f*

Cr. Cym. ch.

Perc. 2 *f*

PCB2403FS

54 55 56 57

Fl.
ff

Ob.
ff

B $\flat$ Cl.
ff

B. Cl.
ff

A. Sax.
ff

T. Sax.
ff

B. Sax.
ff

B $\flat$ Tpt.
ff

Hn.
ff

Alt. Hn.
ff

Tbn./
Euph./
Bsn.
ff

Alt. Tbn.
ff

Tuba
ff

Timp.
ff Solo

Mal.
ff

Perc. 1
ff ch.

Perc. 2
ff ch.